



# SOLAR PUMPS

DC



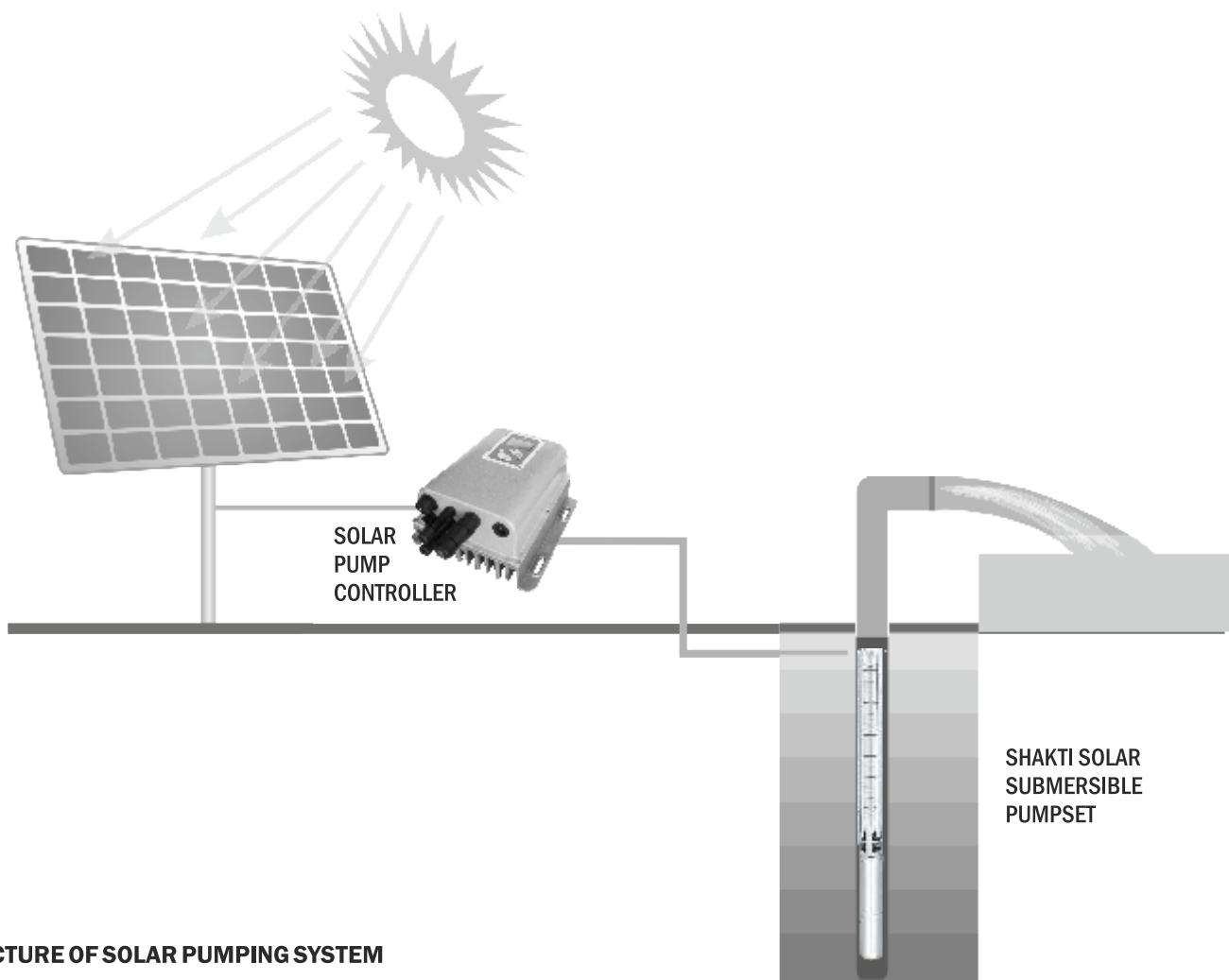
## SOLAR PUMPING SYSTEM

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## SOLAR PUMPING SYSTEM

### INTRODUCTION

Nowdays Solar pumping system is becoming more and more popular, it is being applied to daily use (underground water), agriculture irrigation, forestry irrigation, desert control, pasture animal husbandry, water supply for islands, wastewater treatment engineering, and so on. In recent years, with the promotion of the utilization of non conventional energy resources, solar pumping systems are being used more and more in municipal engineering, city center squares, parks, tourist sites, resorts and hotels, the landscapes and fountain systems in the residential areas. This system is composed of a solar array, a pump and a pump controller. Based on the design philosophy that it is better to store water than electricity, there is no energy storing device such as battery in the system.



### STRUCTURE OF SOLAR PUMPING SYSTEM

The solar array, an aggregation of many solar modules connected in series and/ or parallel. This array absorbs radiation from sunlight and converts it into electrical energy thus help in providing dynamical water as a whole system. The pump controller controls and adjusts the system operation, according to the variation of intensity of sunlight to realize the maximum power point tracking (MPPT). The pump is able to draw water from the deep wells or rivers and lakes to pour into the storage tank or reservoir, or directly connect to the irrigation system, fountain system, etc. According to the actual system demand and installation conditions, different types of pump such as centrifugal pump, axial flow pump, mixed-flow pump or deep-well pump may be used.

## SOLAR PUMPING SYSTEM

### APPLICATIONS

- Ground water lowering
- Irrigation systems
- Industrial Application
- Drip irrigation & sprinkler
- Tank / Cistern filling
- Wildlife refuge
- Rural water supply for ranches, cabins, and cottages
- Fountains

### FEATURES

- High flow system for faster tank filling and significant water output.
- Proven motor and pump technology for long-term reliability
- Pumpset can start at low radiations.
- Clean and pollution free energy, Eco-friendly.
- Ideal for remote areas, where electricity is not available or availability is capital intensive.
- Suitable for day time irrigation, Continuous supply for 6-8 hours in a day.
- MPPT – Max Power Point Tracking for maximizing efficiency of input power
- Soft start feature prevents water hammer and increases system life & easy to operate.
- Simple installation and maintenance free.
- MNRE approved.

### ALL-IN-ONE PACKAGE

The Solar controller is used as a solution for specific pumping requirements of the solar pumping system. Using Shakti components, our technical expertise in groundwater pumping, and innovative thinking based on global market inputs, we have developed a rugged, high-output system which tackles the challenges of remote and harsh environments. No other system delivers the features, benefits, and reliability of solar controller in just one package!

### THE SOLAR WATER PUMPING SYSTEM INCLUDES

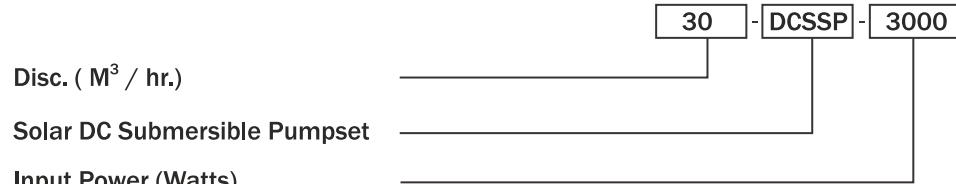
- Shakti High Efficient Submersible motor
- Shakti Submersible pump
- Solar Panel and its mounting structure
- Solar controller
- Cable
- Pipes
- Variety of flow rates available in: 95 to 4000 LPM.
- Motor and controller ratings available in: 900 to 54000 Watt

## SOLAR PUMPING SYSTEM

### IDENTIFICATION

#### DCSSP SERIES

Type designation



\* Note: Input Power at Motor

The Solar high efficient pump-set comprises centrifugal pump technologies

The high Efficient Motor is designed according to the permanent magnet principle with separate electronics unit. The Motor speed range is 1000-3600 RPM depending on pump load.. The permanent magnet motor featuring a consistent higher efficiency within power range compared to a conventional asynchronous motor.

## SOLAR PUMPING SYSTEM

### SOLAR PUMP CONTROLLER SPECIFICATION

#### OVERVIEW

The controller starts the pumps slowly and adjust it speed according to pumping load and power available from solar array.

Power output from the solar array is optimally matched to the load by maximum power point tracker(MPPT) throughout all conditions.

The Shakti Solar controller is designed with the high standard of reliability expected of Shakti products. The controller attempts to controller the pump and motor to deliver water even under adverse conditions, reducing output as necessary to protect the system components from damage, and only shutting down in extreme cases.

| CONTROLLER CODE | DESCRIPTION                              | VFD Voltage Range (Vdc) |         | VFD Maximum Current (Amp.) | Efficiency % |
|-----------------|--|-------------------------|---------|----------------------------|--------------|
|                 |  | Min (V)                 | Max (V) |                            |              |
| 9600000001      | SHAKTI SUD 1P,12A, 180 VDC,1HP           | 70                      | 180     | 12                         | 92           |
| 9600000002      | SHAKTI SUD 1P,12A, 360 VDC,2HP           | 90                      | 360     | 12                         | 93           |
| 9600000003      | SHAKTI SUD 3P,12A, 450 VDC,3HP           | 200                     | 450     | 12                         | 95           |
| 9600000004      | SHAKTI SUD 3P,12A, 720 VDC,5HP           | 200                     | 720     | 12                         | 97           |
| 9600000021      | SHAKTI SUD 3P,20A, 450 VDC,7.5HP         | 200                     | 450     | 22                         | 97           |
| 9600000022      | SHAKTI SUD 3P,20A, 720 VDC,10HP          | 200                     | 720     | 22                         | 97           |
| 9000023556      | SOLAR CONT.DC-SHAKTI-03P-38A (12.5-25HP) | 250                     | 780     | 38                         | 97           |
| 9000023554      | SOLAR CONT.DC-SHAKTI-03P-60A (30-40HP)   | 250                     | 780     | 60                         | 97           |
| 9000021164      | SOLAR CONT.DC-SHAKTI-03P-90A (50-60HP)   | 300                     | 780     | 90                         | 97           |

#### DESCRIPTIONS AND FEATURES

The Shakti Solar controller controller continuously monitors system performance and incorporates a number of features for pump system protection. In the event of a fault, the Shakti Solar drives will indicate the type of fault through the displays.

The Shakti Solar drives system is optimized for pumping under adverse input power conditions unique to solar arrays.

- Internal diagnostics will tolerate a lower input voltage.
- Whenever possible, the controller attempts to regulate the pump load in a manner that optimizes for maximum power transfer from the solar array.

An easy to use interface is provided to enhance configurability and enable remote system monitoring.

- A three-digit seven-segment display provides a detailed indication of system status.
- A small keypad offers flexibility for selection of user options.
- A continuous data connection for remote telemetry is made available via an RS-485 port. (Optional)
- Controller can be Operated by mobile application.

#### PROTECTION FEATURES

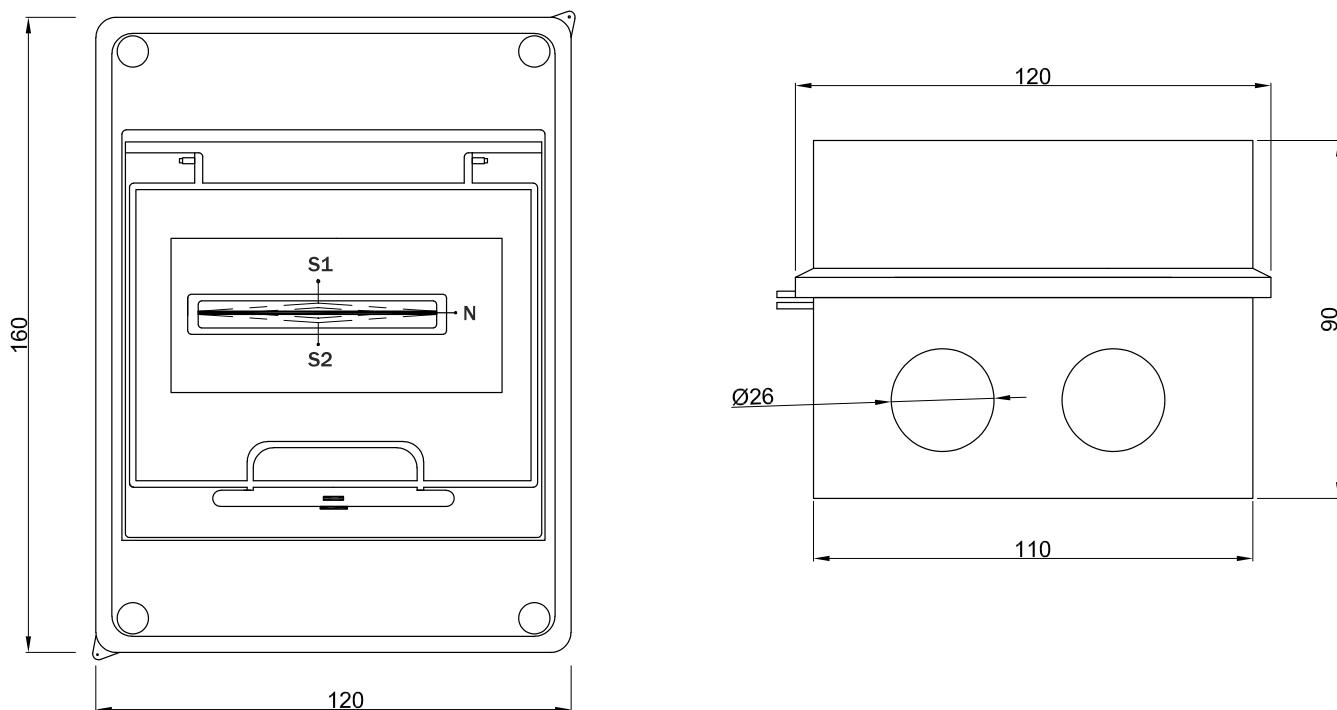
- Dry run Protection      ➤ Overload Protection      ➤ Open Circuit Protection
- Short Circuit Protection      ➤ Over Heat      ➤ Ingress protection IP65 (1HP to 10HP), and IP54 ( 12.5HP - 60HP)

## SOLAR PUMPING SYSTEM

### CHANGE OVER SWITCH

A change-over switch is a dual input single output device, which is used to change the input power source to the controller. It is generally used with controllers/drives which have options to run from solar as well as from grid. There are three operative positions in change-over switch corresponding to S1, S2, (Up and Down) & N (Middle). In case of S1 and S2 positions the corresponding sources are connected to output whereas in N position none of the sources are connected to output. Conventionally the name of the sources is marked in S1 and S2 position for convenience of the user. These change-over switches are provided in a dust and rainproof boxes.

Note: It should be noted that while changing the power source through changeover the N position should be used until the display of the controller turns off. This intermediate use of N position avoids inrush currents through the changeover switch & improves its life.



### SHAKTI DU/DT FILTER

The applications involving long connecting cables (typically 100 m and above) between the VFD (Variable Frequency Drive) output and motor terminal, high voltage spikes are observed at receiving/motor end. The magnitude of these voltage spikes may go up to double the DC bus voltage of VFD depending on length of the cable. The high du/dt at the controller output is the primary reason for these voltage spikes. These high voltage spikes may lead to insulation failure in the connected motor or cable. This problem can be resolved using an appropriate du/dt filter at the output of the controller.

Conventionally used first order filter reduces this problem however; the second order Shakti du/dt filter mitigates this problem to a greater extent. It is a unique product which is designed, developed and manufactured by Shakti Pumps (India) Ltd. The IP54 design eliminates the requirement of outer casing and provides a fair protection against dust and water. This product comes with a wide variety of distinguished features such as: compact size, shock-proof plug and play connectors, capability to operate in wide temperature range and harsh environments.

### APPLICATION

Reduces voltage spikes, common mode & bearing current.

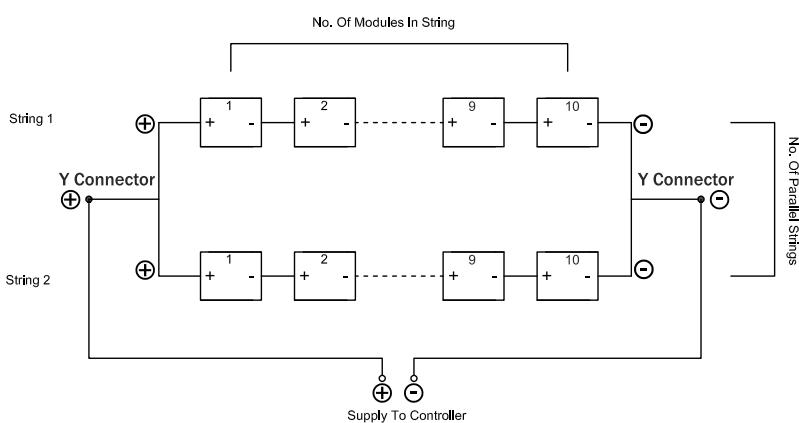
**SOLAR PUMPING SYSTEM**
**SOLAR POWER SELECTION & CONFIGURATION**

| S. No. | Motor Input Power (W) |       | PV Module Wattage (W) | Total No. of Modules Required | Module Configuration     |                         | Structure Configuration (No. of Modules) |   |   |    |
|--------|-----------------------|-------|-----------------------|-------------------------------|--------------------------|-------------------------|--|---|---|----|
|        | Min                   | Max   |                       |                               | No. of Modules in String | No. of Parallel Strings | 4  | 6 | 9 | 10 |
| 1      | 900                   | 1020  | 340                   | 3                             | 3                        | 1                       | 1  |   |   |    |
| 2      | 1200                  | 1360  | 340                   | 4                             | 4                        | 1                       | 1  |   |   |    |
| 4      | 1800                  | 2040  | 340                   | 6                             | 6                        | 1                       |  | 1 |   |    |
| 5      | 3000                  | 3060  | 340                   | 9                             | 9                        | 1                       |  |   | 1 |    |
| 6      | 4800                  | 5100  | 340                   | 15                            | 15                       | 1                       |  | 1 | 1 |    |
| 7      | 6750                  | 6800  | 340                   | 20                            | 10                       | 2                       |  |   |   | 2  |
| 8      | 9000                  | 9520  | 340                   | 28                            | 14                       | 2                       |  |   | 1 | 2  |
| 9      | 11250                 | 12240 | 340                   | 36                            | 12                       | 3                       |  | 1 |   | 3  |
| 10     | 13500                 | 13600 | 340                   | 40                            | 10                       | 4                       |  |   |   | 4  |
| 11     | 18000                 | 19040 | 340                   | 56                            | 14                       | 4                       |  | 1 |   | 5  |
| 12     | 22500                 | 23800 | 340                   | 70                            | 14                       | 5                       |  |   |   | 7  |
| 13     | 27000                 | 28560 | 340                   | 84                            | 14                       | 6                       | 1  |   |   | 8  |
| 14     | 36000                 | 38080 | 340                   | 112                           | 16                       | 7                       | 1  |   |   | 11 |
| 15     | 45000                 | 45900 | 340                   | 135                           | 15                       | 9                       |  | 1 |   | 13 |
| 16     | 54000                 | 54400 | 340                   | 160                           | 16                       | 10                      |  |   |   | 16 |

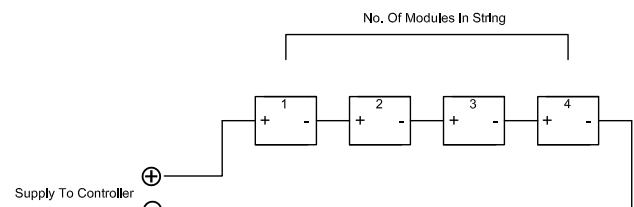
Example :

**PARALLEL CONNECTION**

Module Configuration For 6750 watt

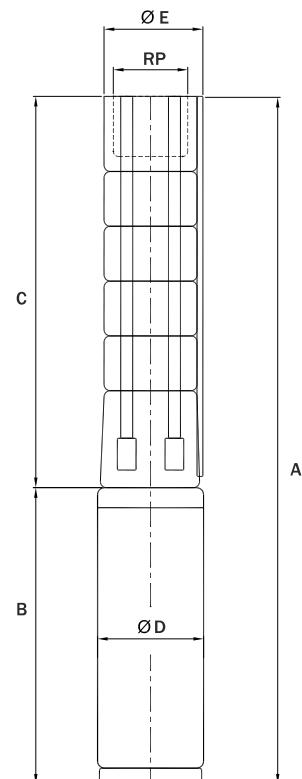
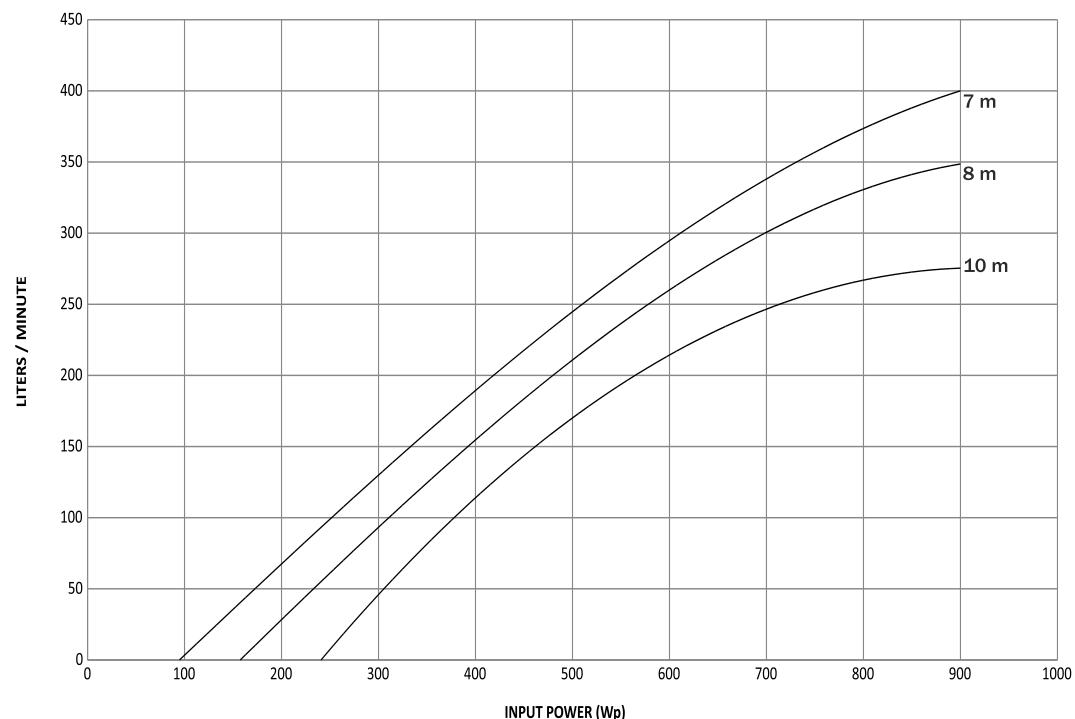

**SERIES CONNECTION**

Module Configuration For 1200 watt

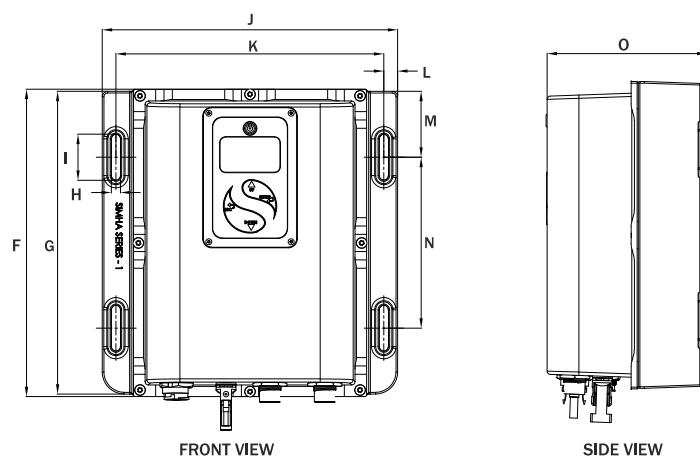


**SOLAR PUMPING SYSTEM**

**SOLAR 16.5 DCSSP 900**  
**BSP 50 mm (4X6)**  
**PUMPSET CODE** 9500000828  
**DISCHARGE (LPD)** 106200  
**DISCHARGE (LPW)** 118  
**DUTY HEAD** 10 METER



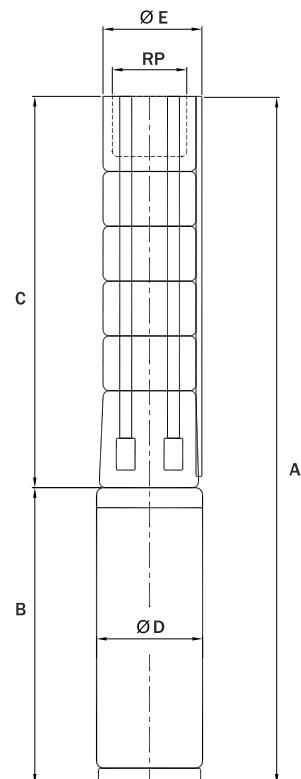
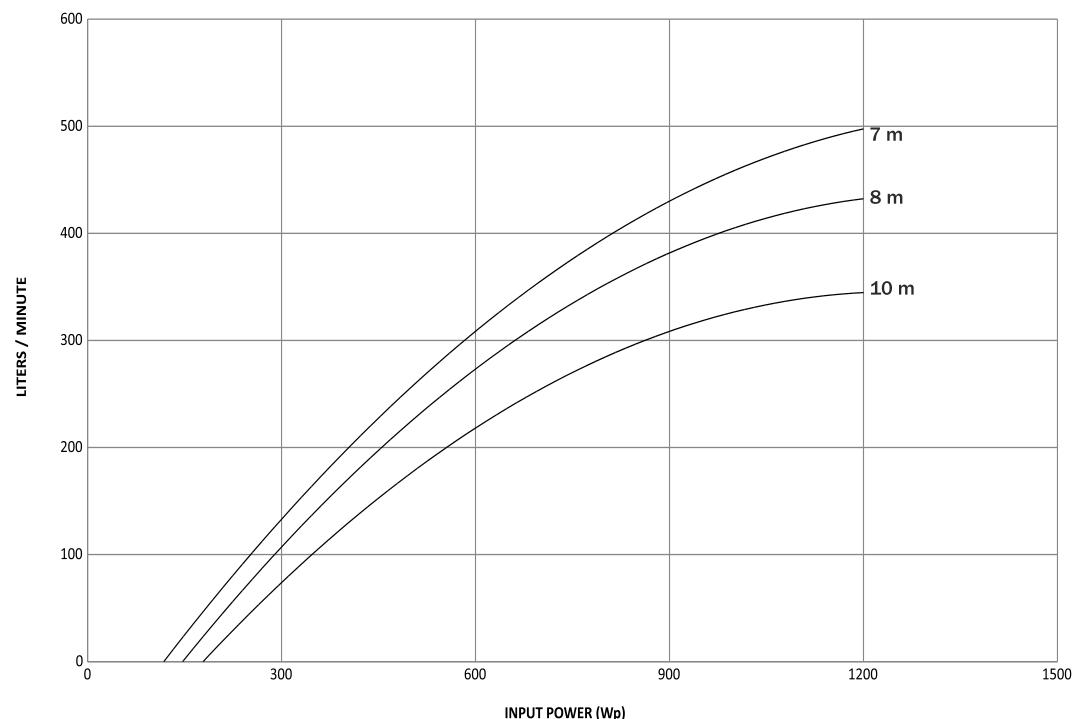
|          | INPUT POWER (Wp) |     |     |     |     |     |     |
|----------|------------------|-----|-----|-----|-----|-----|-----|
|          | 900              | 700 | 550 | 400 | 250 | 150 | 100 |
| HEAD (m) | FLOW IN LPM      |     |     |     |     |     |     |
| 10       | 280              | 236 | 192 | 129 | 0   |     |     |
| 8        | 350              | 295 | 240 | 161 | 50  | 0   |     |
| 7        | 400              | 337 | 274 | 184 | 100 | 40  | 0   |



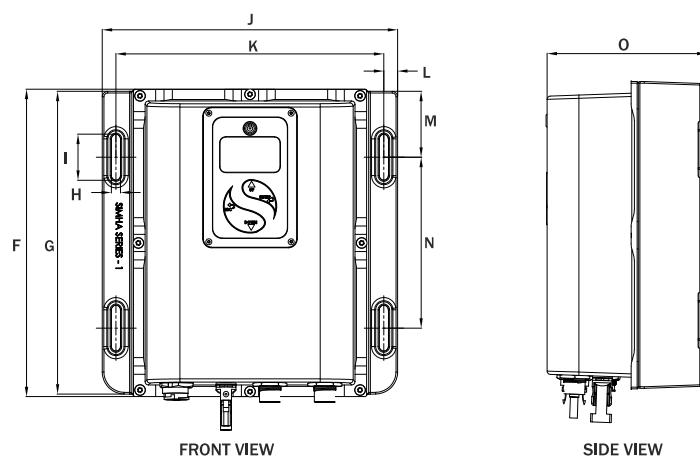
CONTROLLER CODE : 9600000001

**SOLAR PUMPING SYSTEM**

**SOLAR 20.5 DCSSP 1200**  
**BSP 50 mm (4X6)**  
**PUMPSET CODE** 9500001597  
**DISCHARGE (LPD)** 154800  
**DISCHARGE (LPW)** 129  
**DUTY HEAD** 10 METER



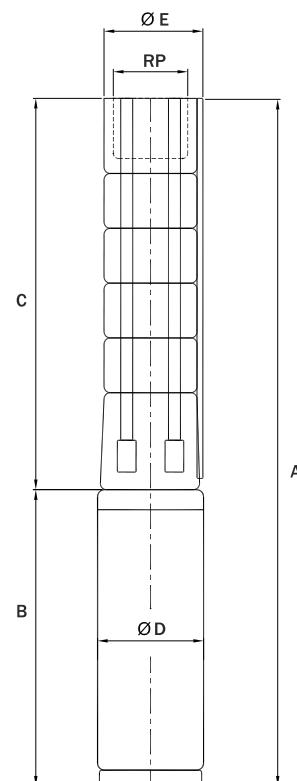
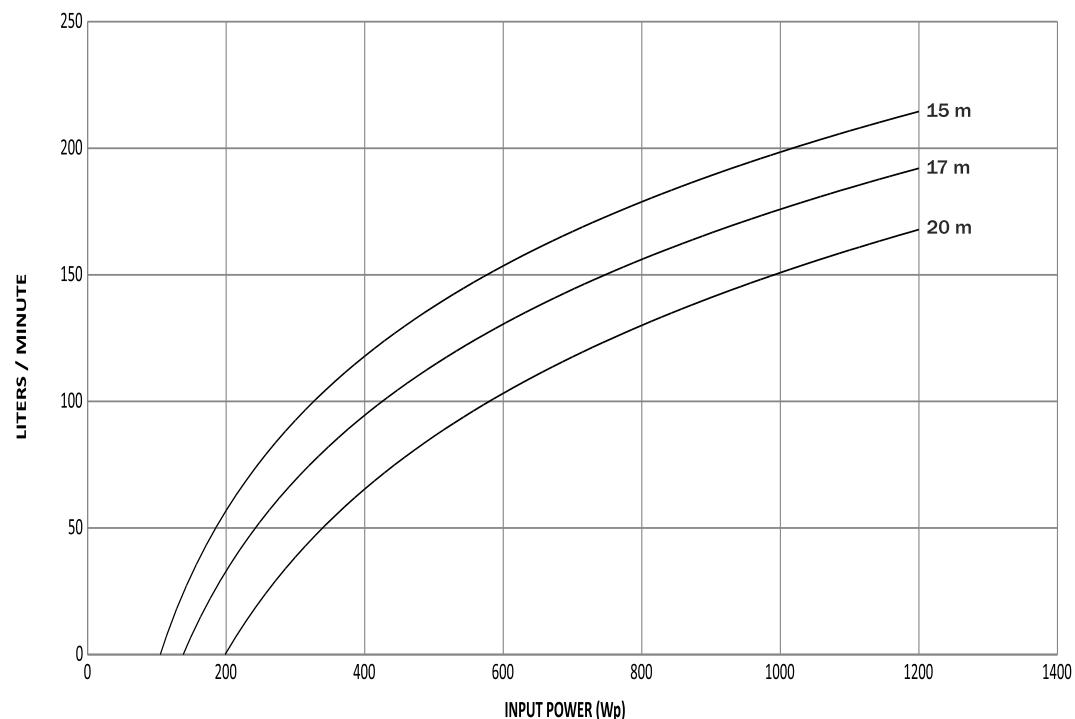
|          | INPUT POWER (Wp) |     |     |     |     |     |     |
|----------|------------------|-----|-----|-----|-----|-----|-----|
|          | 1200             | 850 | 600 | 250 | 200 | 150 | 100 |
| HEAD (m) | FLOW IN LPM      |     |     |     |     |     |     |
| 10       | 347              | 290 | 222 | 59  | 0   |     |     |
| 8        | 434              | 363 | 278 | 74  | 40  | 0   |     |
| 7        | 496              | 414 | 317 | 84  | 55  | 25  | 0   |



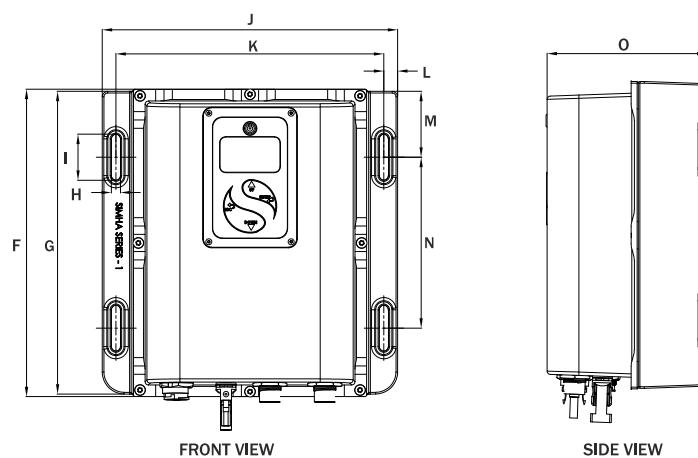
CONTROLLER CODE : 9600000001

**SOLAR PUMPING SYSTEM**

**SOLAR 10 DCSSP 1200**  
**BSP 50 mm (4X4)**  
**PUMPSET CODE** 9500000819  
**DISCHARGE (LPD)** 74400  
**DISCHARGE (LPW)** 62  
**DUTY HEAD** 20 METER



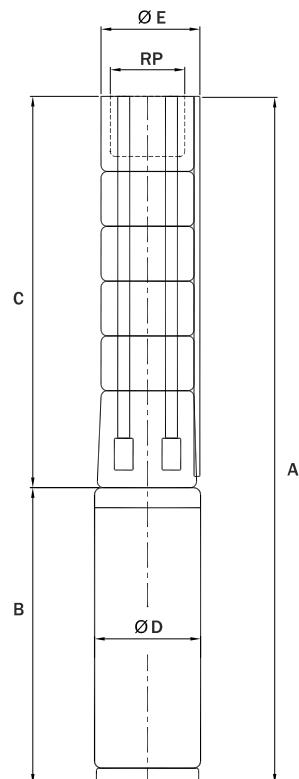
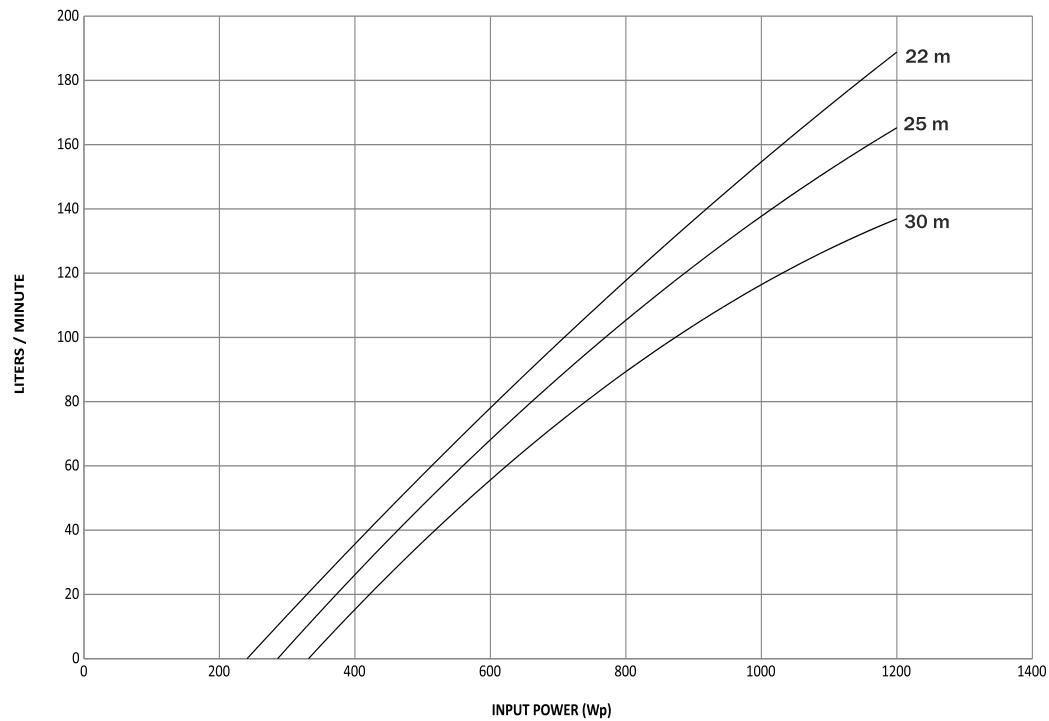
|          | INPUT POWER (Wp) |     |     |     |     |     |     |
|----------|------------------|-----|-----|-----|-----|-----|-----|
|          | 1200             | 900 | 600 | 450 | 200 | 150 | 100 |
| HEAD (m) | FLOW IN LPM      |     |     |     |     |     |     |
| 20       | 166              | 140 | 110 | 73  | 0   |     |     |
| 17       | 195              | 165 | 129 | 100 | 45  | 0   |     |
| 15       | 221              | 187 | 147 | 130 | 55  | 30  | 0   |



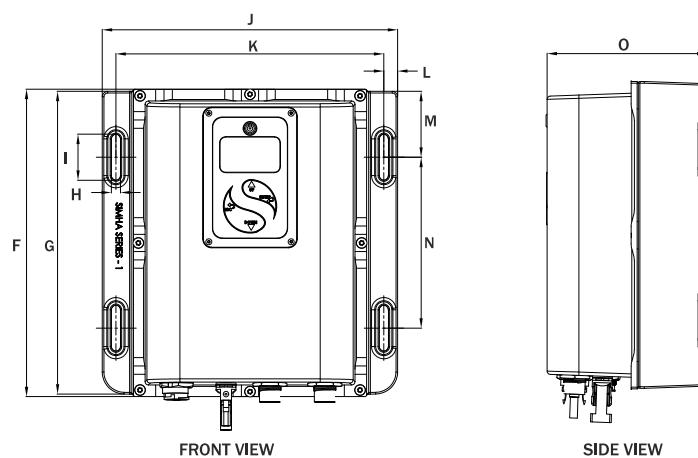
CONTROLLER CODE : 9600000001

**SOLAR PUMPING SYSTEM**

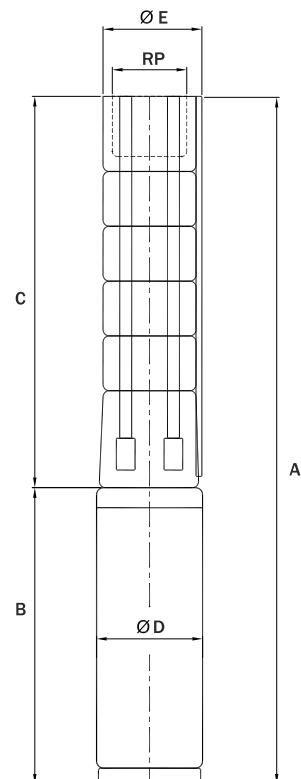
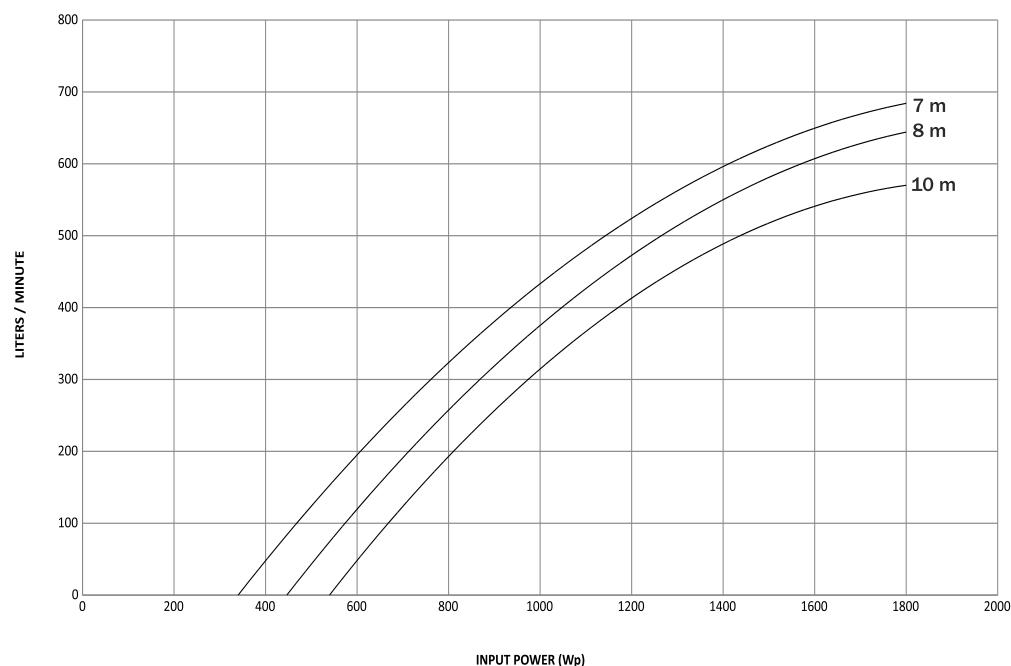
**SOLAR 8 DCSSP 1200**  
**BSP 50 mm (4X4)**  
**PUMPSET CODE** 9500000939  
**DISCHARGE (LPD)** 49200  
**DISCHARGE (LPW)** 41  
**DUTY HEAD** 30 METER



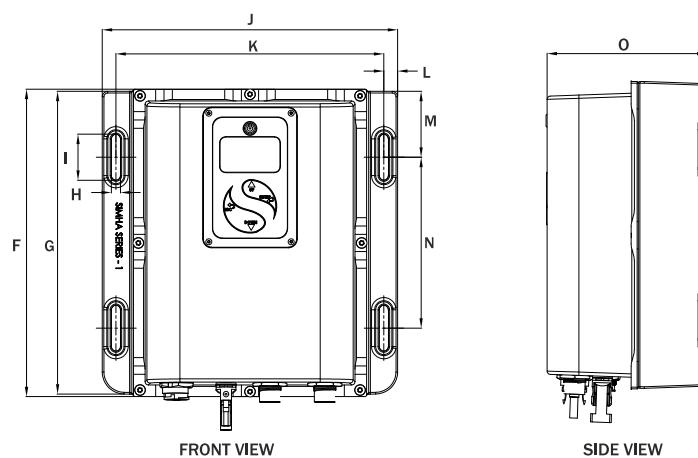
|          | INPUT POWER (Wp) |     |     |     |     |     |     |
|----------|------------------|-----|-----|-----|-----|-----|-----|
|          | 1200             | 950 | 650 | 450 | 350 | 300 | 250 |
| HEAD (m) | FLOW IN LPM      |     |     |     |     |     |     |
| 30       | 138              | 108 | 64  | 32  | 0   |     |     |
| 25       | 166              | 130 | 77  | 38  | 18  | 0   |     |
| 22       | 188              | 147 | 87  | 44  | 28  | 15  | 0   |

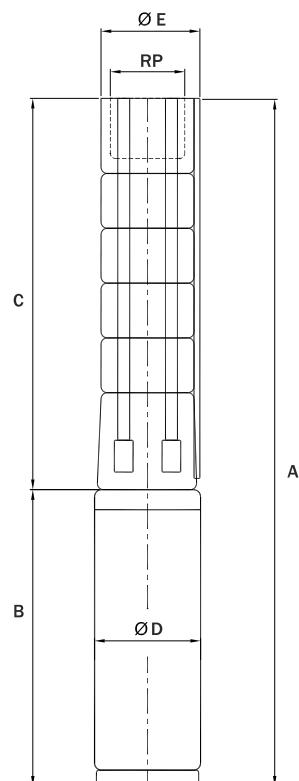
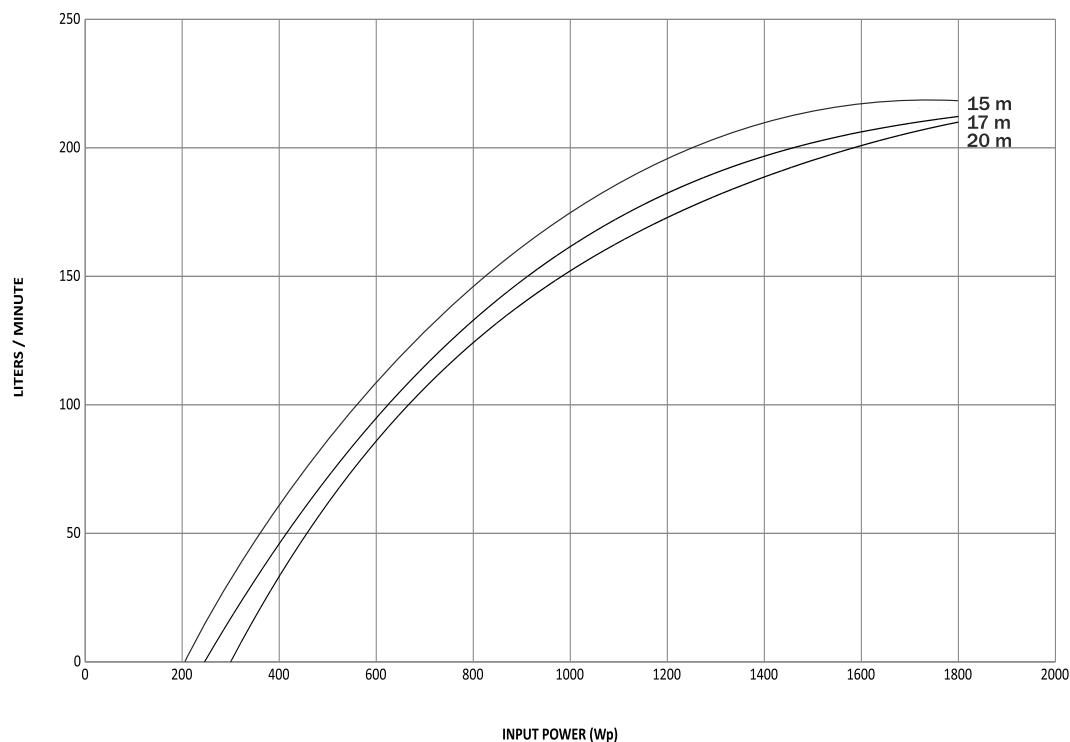


CONTROLLER CODE : 9600000001

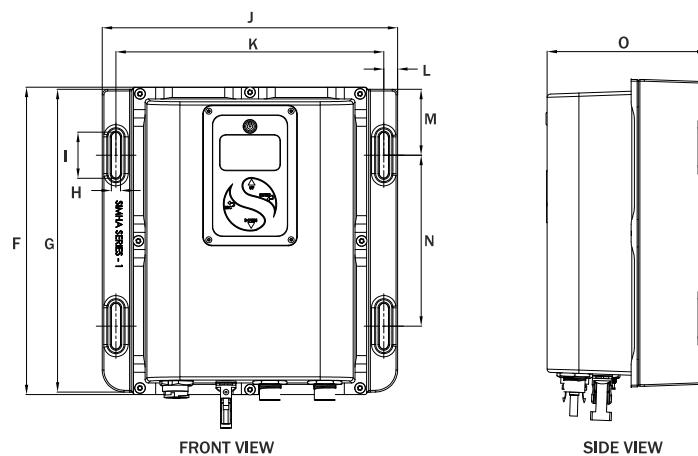
**SOLAR PUMPING SYSTEM**
**SOLAR 34 DCSSP 1800**
**BSP 75 mm (4X6)**
**PUMPSET CODE 9500000853**
**DISCHARGE (LPD) 237600**
**DISCHARGE (LPW) 132**
**DUTY HEAD 10 METER**


|          | INPUT POWER (Wp) |      |      |     |     |     |     |
|----------|------------------|------|------|-----|-----|-----|-----|
|          | 1800             | 1450 | 1050 | 900 | 550 | 500 | 350 |
| HEAD (m) | FLOW IN LPM      |      |      |     |     |     |     |
| 10       | 580              | 480  | 350  | 270 | 0   |     |     |
| 8        | 645              | 560  | 440  | 270 | 140 | 0   |     |
| 7        | 690              | 595  | 500  | 330 | 230 | 80  | 0   |


**CONTROLLER CODE : 9600000002**

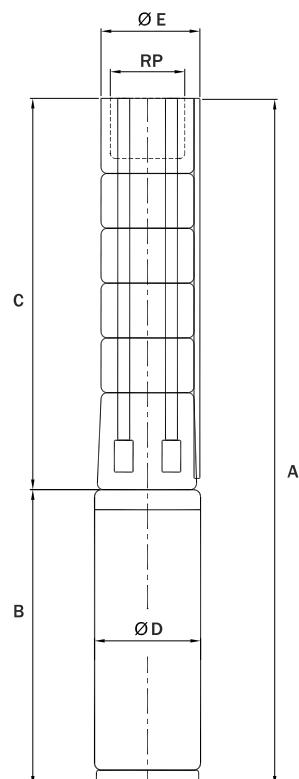
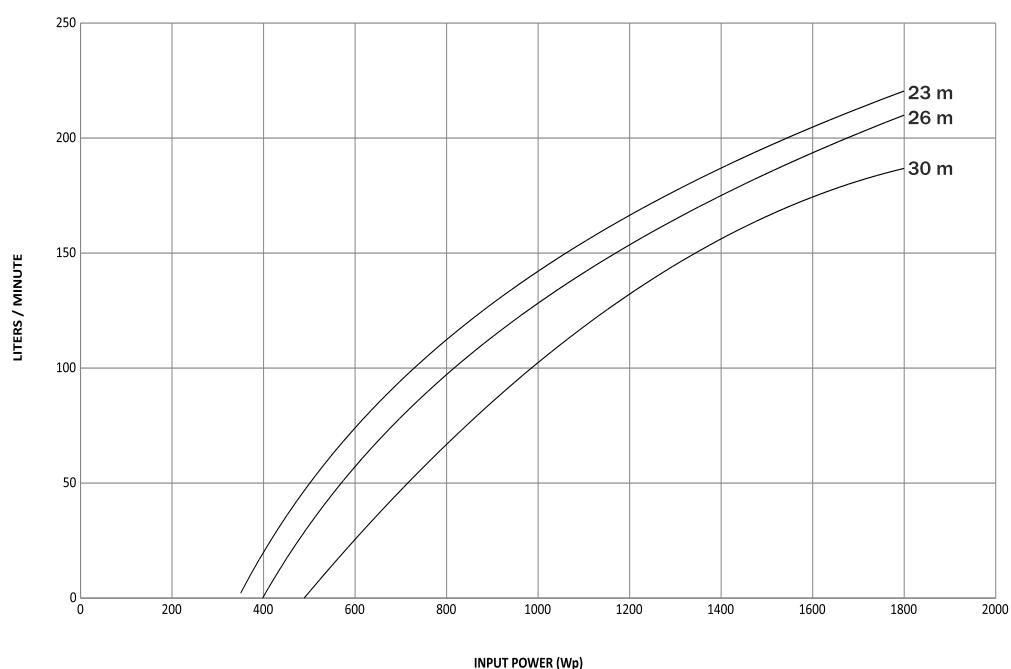
**SOLAR PUMPING SYSTEM**
**SOLAR 12 DCSSP 1800**
**BSP 50 mm (4X4)**
**PUMPSET CODE**
**9500000844**
**DISCHARGE (LPD)**
**105300**
**DISCHARGE (LPW)**
**58.5**
**DUTY HEAD**
**20 METER**


|          | INPUT POWER (Wp) |      |     |     |     |     |     |
|----------|------------------|------|-----|-----|-----|-----|-----|
|          | 1800             | 1450 | 850 | 450 | 300 | 250 | 200 |
| HEAD (m) | FLOW IN LPM      |      |     |     |     |     |     |
| 20       | 210              | 192  | 132 | 48  | 0   |     |     |
| 17       | 212              | 200  | 140 | 60  | 18  | 0   |     |
| 15       | 215              | 210  | 160 | 70  | 30  | 15  | 0   |

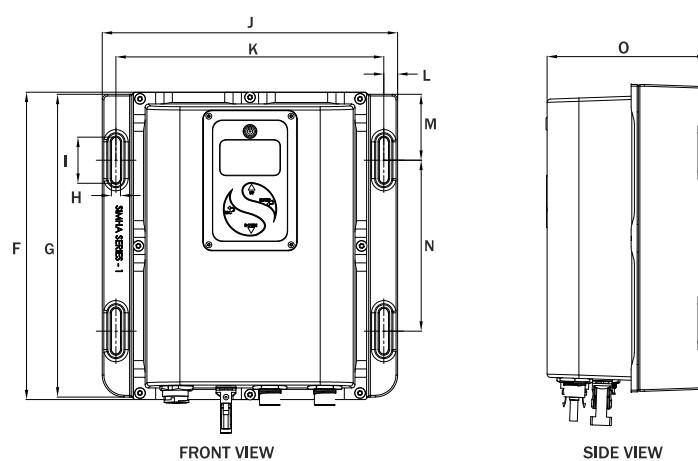

**CONTROLLER CODE : 9600000002**

**SOLAR PUMPING SYSTEM**

**SOLAR 10.5 DCSSP 1800**  
**BSP 50 mm (4X4)**  
**PUMPSET CODE** 9500000941  
**DISCHARGE (LPD)** 73800  
**DISCHARGE (LPW)** 41  
**DUTY HEAD** 30 METER



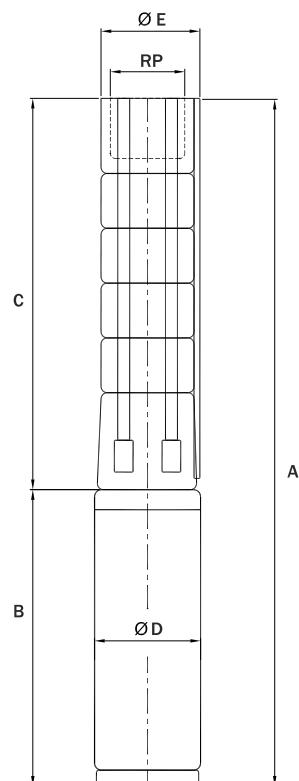
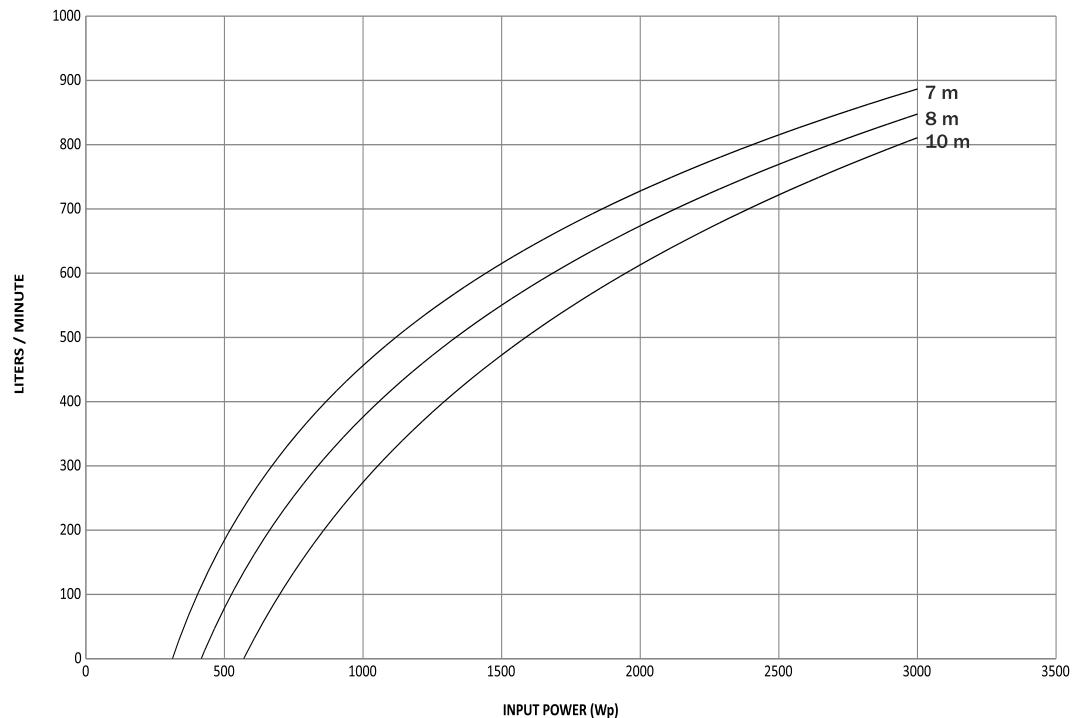
|          | INPUT POWER (Wp) |      |      |     |     |     |     |
|----------|------------------|------|------|-----|-----|-----|-----|
|          | 1800             | 1450 | 1050 | 700 | 500 | 400 | 350 |
| HEAD (m) | FLOW IN LPM      |      |      |     |     |     |     |
| 30       | 188              | 159  | 110  | 51  | 0   |     |     |
| 26       | 206              | 182  | 138  | 80  | 30  | 0   |     |
| 23       | 214              | 190  | 155  | 108 | 40  | 20  | 0   |



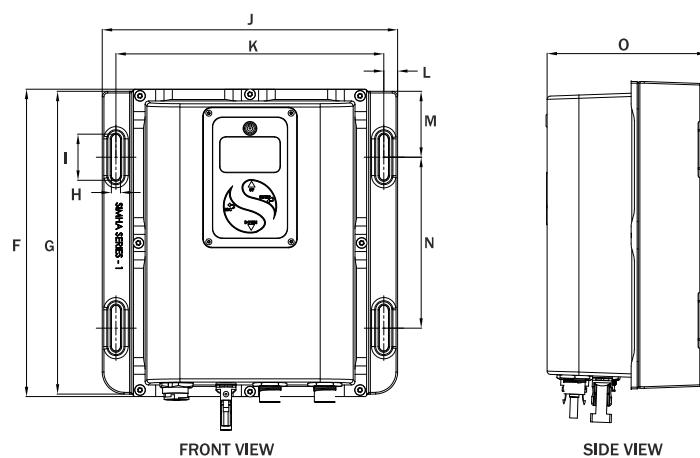
CONTROLLER CODE : 9600000002

**SOLAR PUMPING SYSTEM**

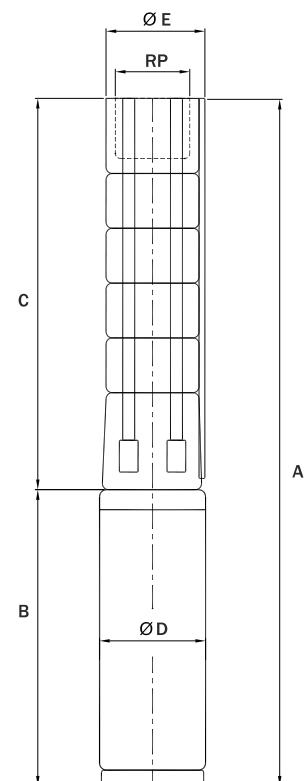
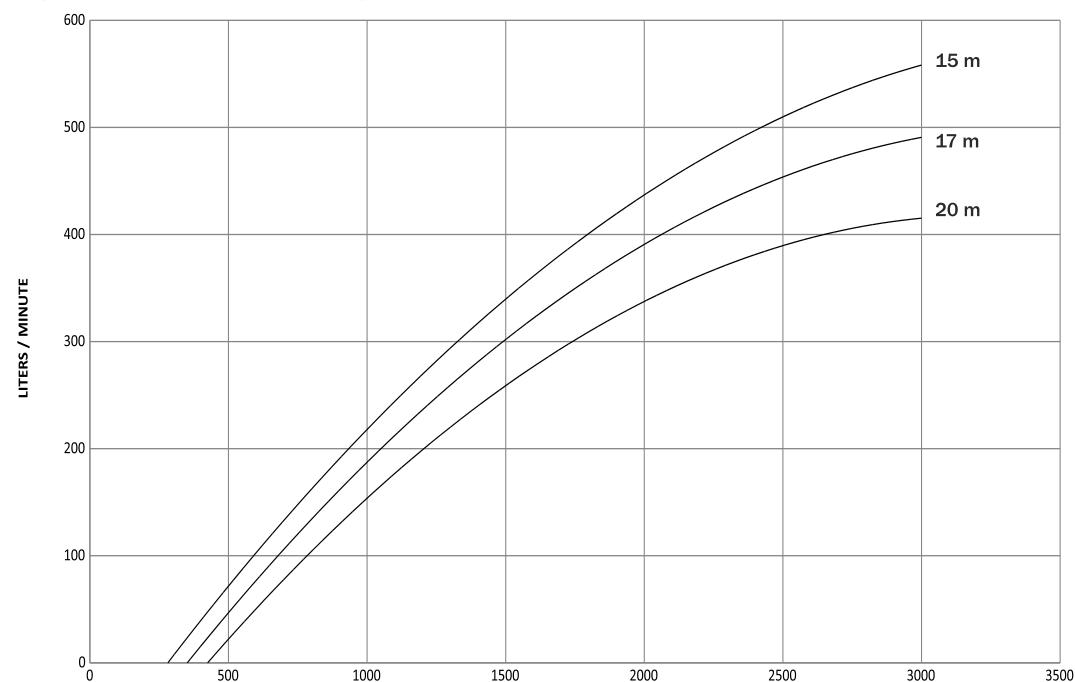
**SOLAR 48 DCSSP 3000**  
**BSP 75 mm (4X6)**  
**PUMPSET CODE** 9500000862  
**DISCHARGE (LPD)** 373500  
**DISCHARGE (LPW)** 124.5  
**DUTY HEAD** 10 METER



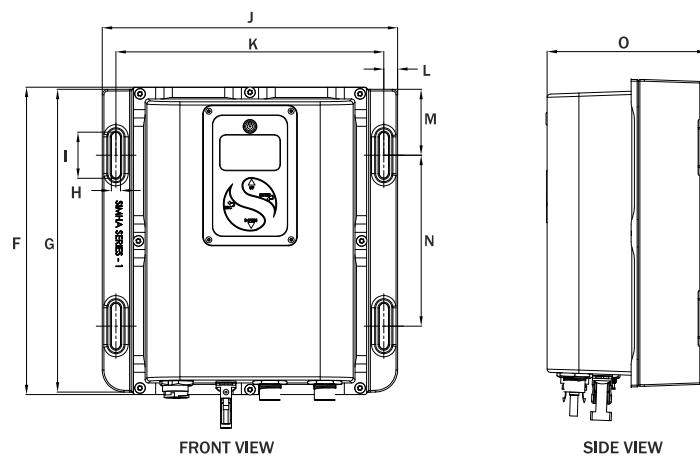
|          | INPUT POWER (Wp) |      |      |     |     |     |     |
|----------|------------------|------|------|-----|-----|-----|-----|
|          | 3000             | 2350 | 1450 | 900 | 600 | 400 | 300 |
| HEAD (m) | FLOW IN LPM      |      |      |     |     |     |     |
| 10       | 802              | 685  | 470  | 250 | 0   |     |     |
| 8        | 847              | 750  | 520  | 360 | 120 | 0   |     |
| 7        | 900              | 790  | 580  | 427 | 250 | 85  | 0   |

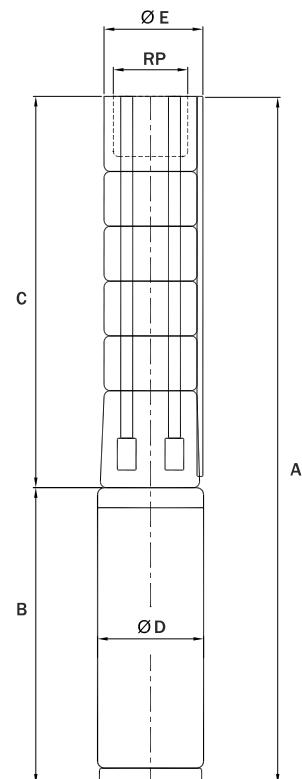
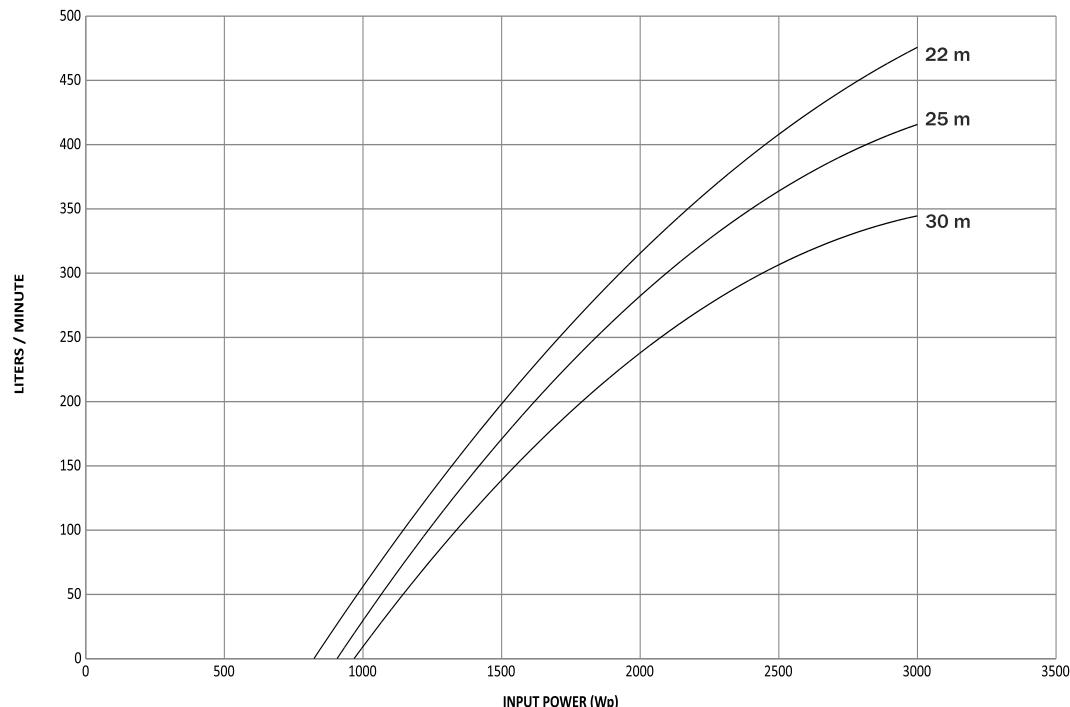


CONTROLLER CODE : 9600000003

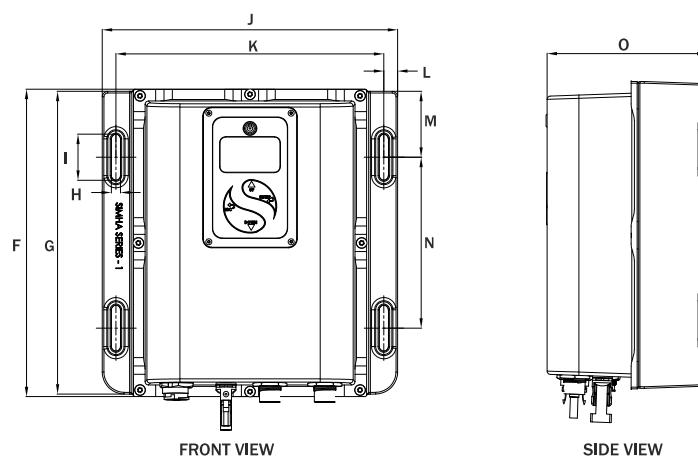
**SOLAR PUMPING SYSTEM**
**SOLAR 31 DCSSP 3000**
**BSP 65 mm (4X6)**
**PUMPSET CODE 9500000854**
**DISCHARGE (LPD) 193500**
**DISCHARGE (LPW) 64.5**
**DUTY HEAD 20 METER**


|          | INPUT POWER (Wp) |      |      |     |     |     |     |
|----------|------------------|------|------|-----|-----|-----|-----|
|          | 3000             | 2100 | 1200 | 900 | 450 | 400 | 300 |
| HEAD (m) | FLOW IN LPM      |      |      |     |     |     |     |
| 20       | 419              | 339  | 205  | 138 | 0   |     |     |
| 17       | 493              | 399  | 241  | 162 | 45  | 0   |     |
| 15       | 559              | 452  | 273  | 184 | 70  | 35  | 0   |


**CONTROLLER CODE : 9600000003**

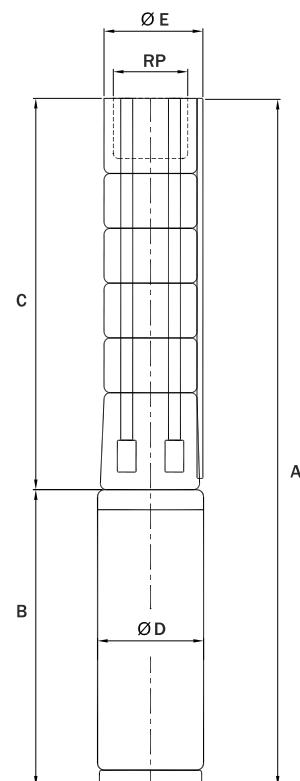
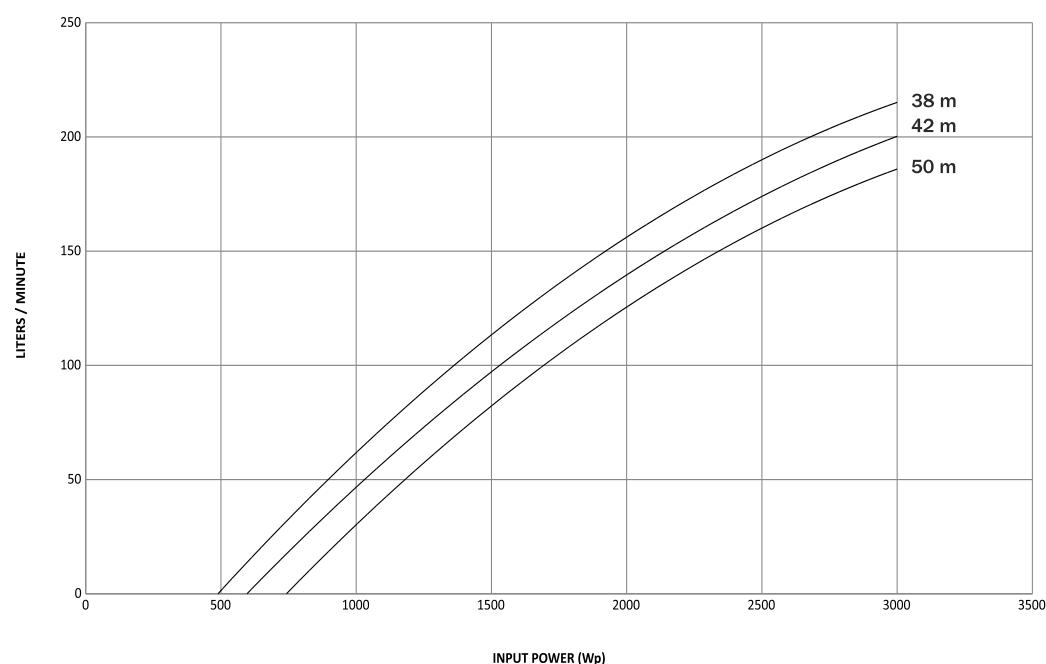
**SOLAR PUMPING SYSTEM**
**SOLAR 21 DCSSP 3000**
**BSP 65 mm (4X6)**
**PUMPSET CODE**
**9500000949**
**DISCHARGE (LPD)**
**130500**
**DISCHARGE (LPW)**
**43.5**
**DUTY HEAD**
**30 METER**


|          | INPUT POWER (W <sub>p</sub> ) |      |      |      |      |     |     |
|----------|-------------------------------|------|------|------|------|-----|-----|
|          | 3000                          | 2400 | 1800 | 1200 | 1000 | 900 | 800 |
| HEAD (m) | FLOW IN LPM                   |      |      |      |      |     |     |
| 30       | 348                           | 287  | 205  | 76   | 0    |     |     |
| 25       | 418                           | 344  | 246  | 91   | 25   | 0   |     |
| 22       | 475                           | 391  | 280  | 104  | 55   | 24  | 0   |

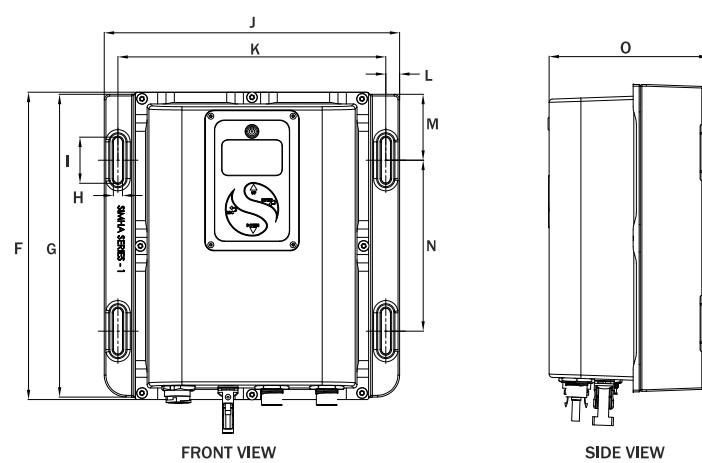

**CONTROLLER CODE : 9600000003**

**SOLAR PUMPING SYSTEM**

**SOLAR 10.5 DCSSP 3000**  
**BSP 50 mm (4X4)**  
**PUMPSET CODE** 9500000950  
**DISCHARGE (LPD)** 73500  
**DISCHARGE (LPW)** 24.5  
**DUTY HEAD** 50 METER



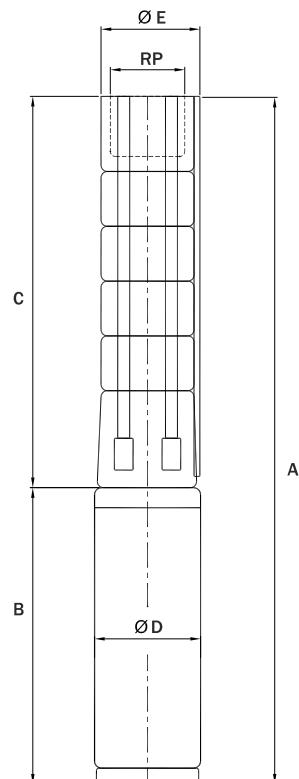
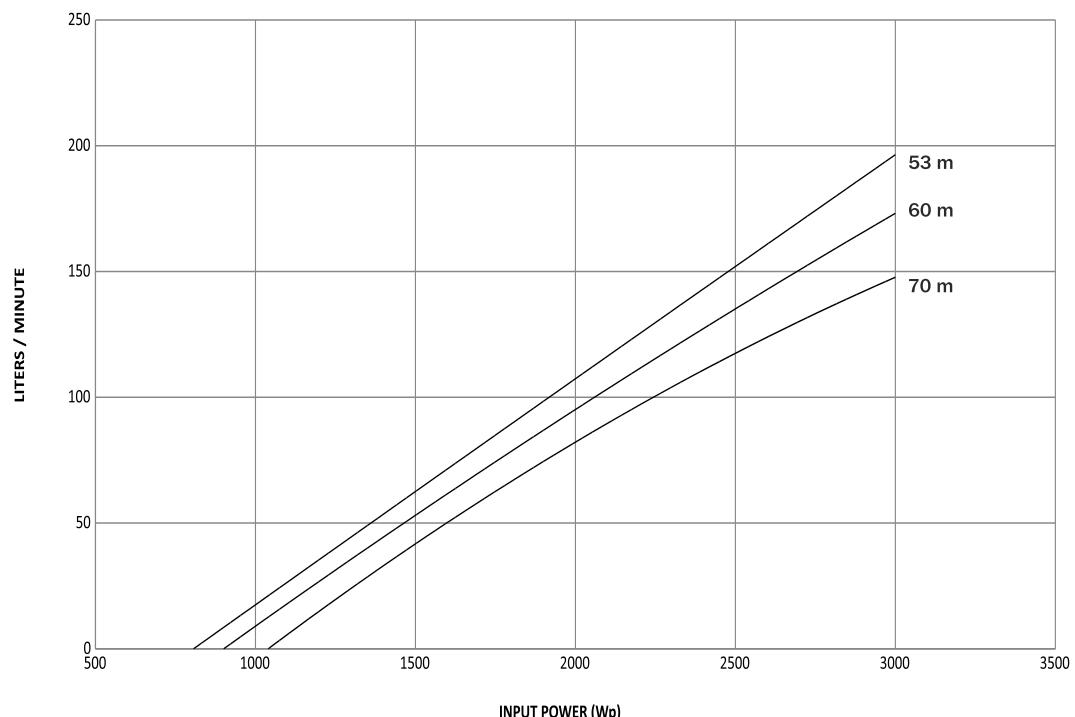
|          | INPUT POWER (Wp) |      |      |     |     |     |     |
|----------|------------------|------|------|-----|-----|-----|-----|
|          | 3000             | 2100 | 1500 | 900 | 750 | 650 | 500 |
| HEAD (m) | FLOW IN LPM      |      |      |     |     |     |     |
| 50       | 186              | 133  | 82   | 20  | 0   |     |     |
| 42       | 200              | 150  | 90   | 45  | 20  | 0   |     |
| 38       | 215              | 165  | 110  | 50  | 42  | 15  | 0   |



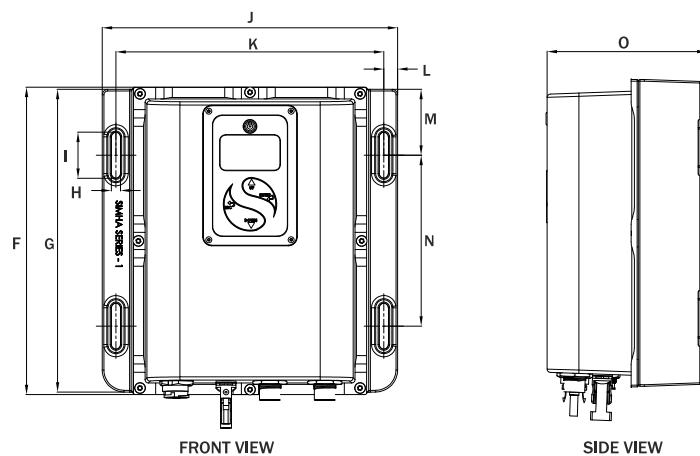
CONTROLLER CODE : 9600000003

**SOLAR PUMPING SYSTEM**

**SOLAR 8.5 DCSSP 3000**  
**BSP 50 mm (4X4)**  
**PUMPSET CODE** 9500000934  
**DISCHARGE (LPD)** 51000  
**DISCHARGE (LPW)** 17  
**DUTY HEAD** 70 METER



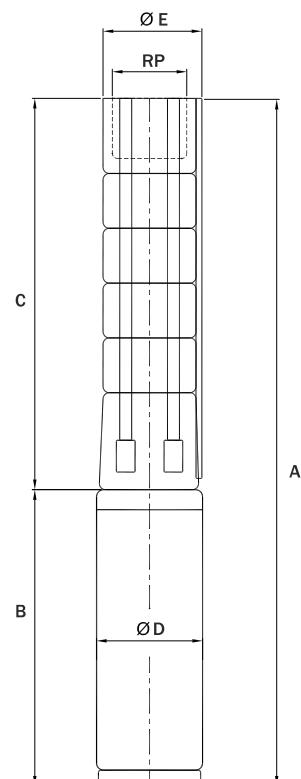
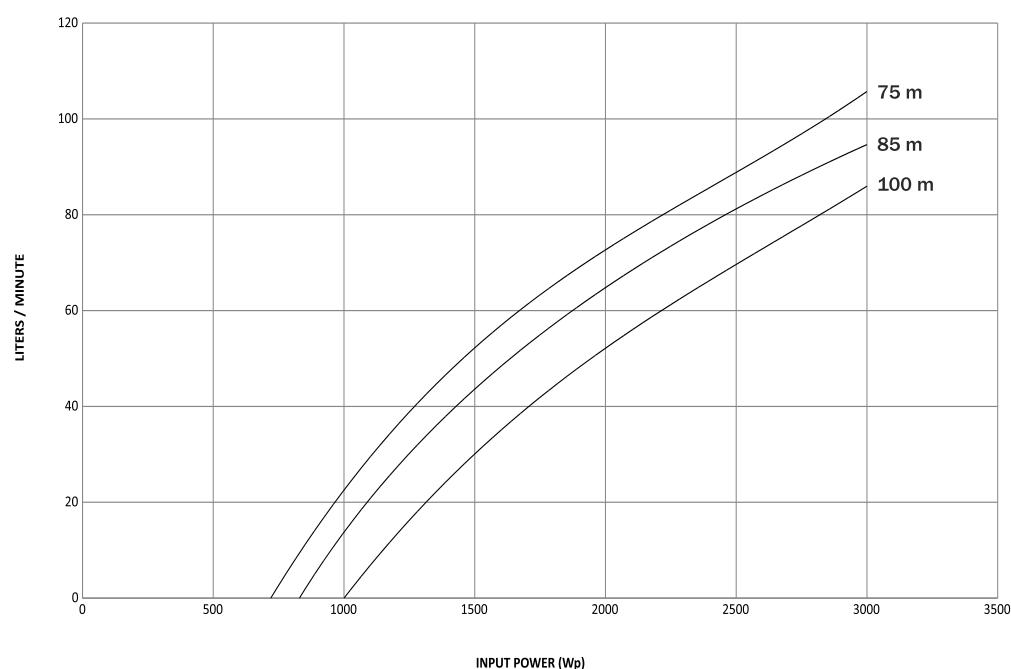
|          | INPUT POWER (Wp) |      |      |      |      |     |     |
|----------|------------------|------|------|------|------|-----|-----|
|          | 3000             | 2400 | 1800 | 1200 | 1050 | 900 | 800 |
| HEAD (m) | FLOW IN LPM      |      |      |      |      |     |     |
| 70       | 148              | 110  | 67   | 16   | 0    |     |     |
| 60       | 173              | 128  | 78   | 25   | 15   | 0   |     |
| 53       | 195              | 145  | 88   | 35   | 20   | 10  | 0   |



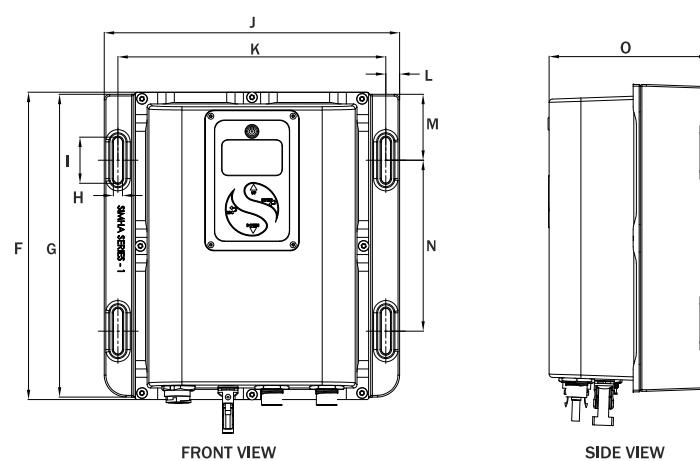
CONTROLLER CODE : 9600000003

**SOLAR PUMPING SYSTEM**

**SOLAR 6 DCSSP 3000**  
**BSP 38 mm (4X4)**  
**PUMPSET CODE** 9500000936  
**DISCHARGE (LPD)** 33000  
**DISCHARGE (LPW)** 11  
**DUTY HEAD** 100 METER  
**CHOKE CODE** 9600000025



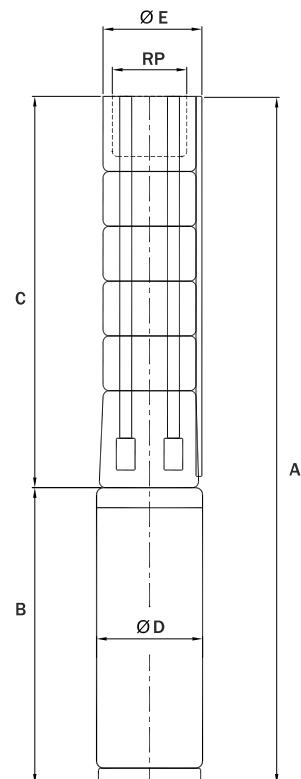
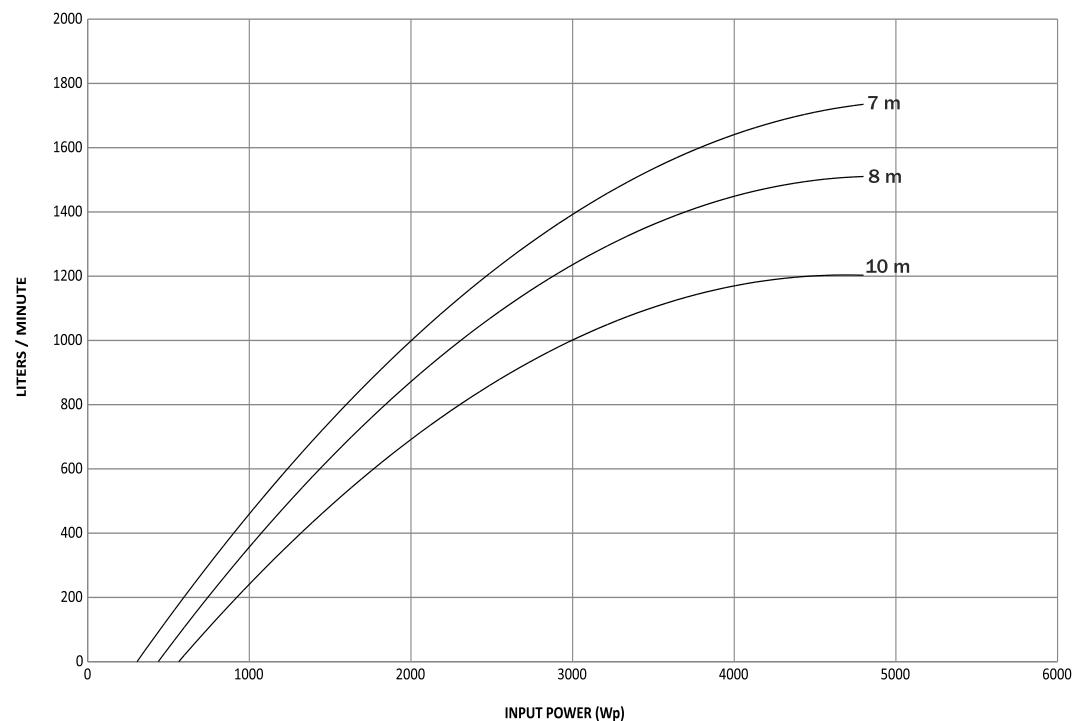
|          | INPUT POWER (Wp) |      |      |      |      |     |     |
|----------|------------------|------|------|------|------|-----|-----|
|          | 3000             | 2700 | 2100 | 1500 | 1000 | 850 | 700 |
| HEAD (m) | FLOW IN LPM      |      |      |      |      |     |     |
| 100      | 86               | 76   | 56   | 30   | 0    |     |     |
| 85       | 98               | 84   | 65   | 47   | 15   | 0   |     |
| 75       | 106              | 95   | 75   | 55   | 20   | 10  | 0   |



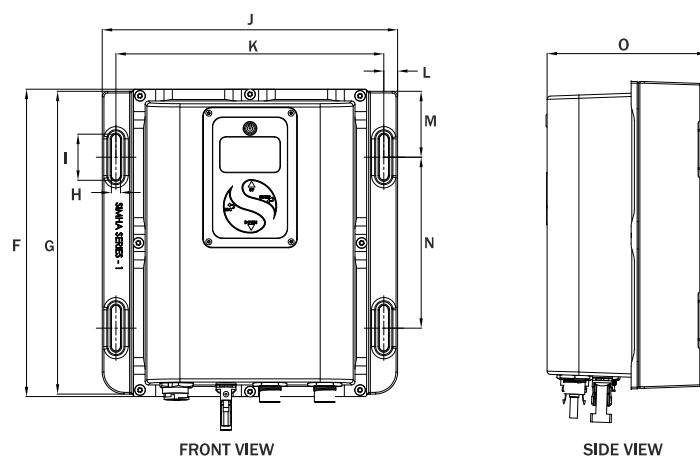
CONTROLLER CODE : 9600000003

**SOLAR PUMPING SYSTEM**

**SOLAR 73.5 DCSSP 4800**  
**BSP 100 mm (4X6)**  
**PUMPSET CODE** 9500000871  
**DISCHARGE (LPD)** 590400  
**DISCHARGE (LPW)** 123  
**DUTY HEAD** 10 METER



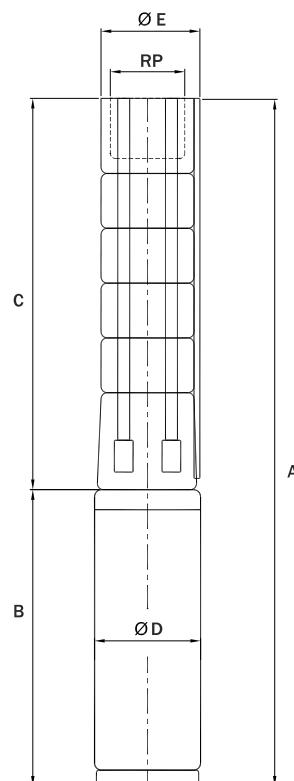
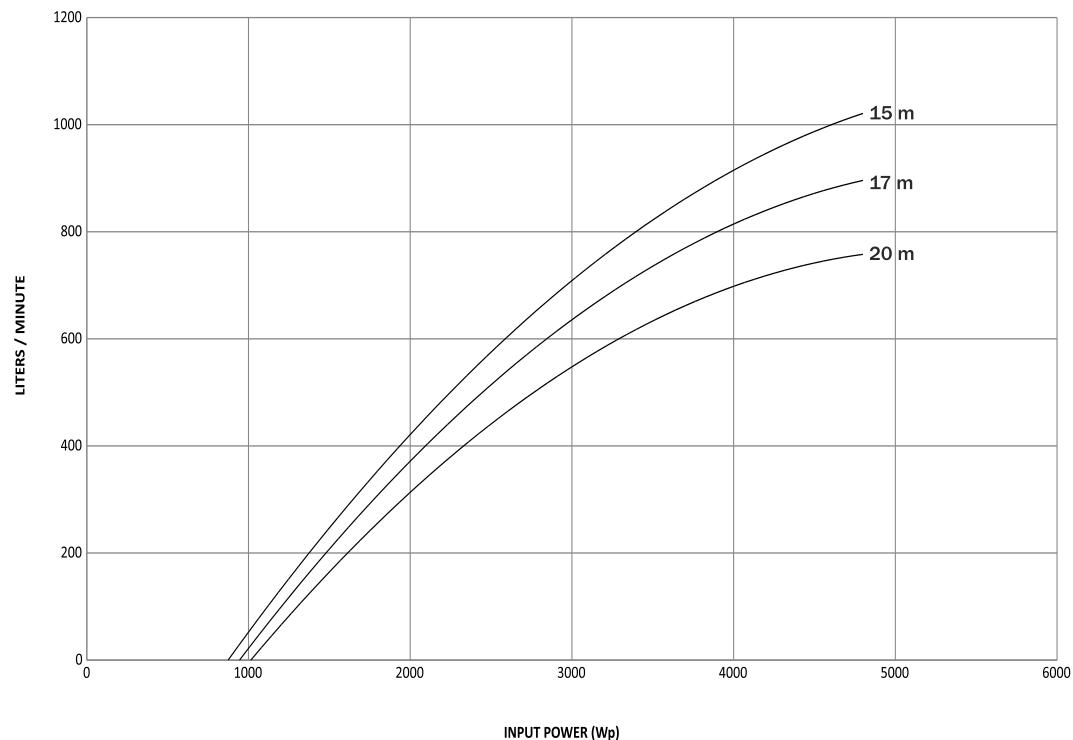
|          | INPUT POWER (Wp) |      |      |      |     |     |     |
|----------|------------------|------|------|------|-----|-----|-----|
|          | 4800             | 3400 | 2150 | 1300 | 650 | 500 | 300 |
| HEAD (m) | FLOW IN LPM      |      |      |      |     |     |     |
| 10       | 1225             | 1026 | 765  | 460  | 0   |     |     |
| 8        | 1531             | 1283 | 956  | 575  | 150 | 0   |     |
| 7        | 1750             | 1466 | 1093 | 657  | 250 | 100 | 0   |



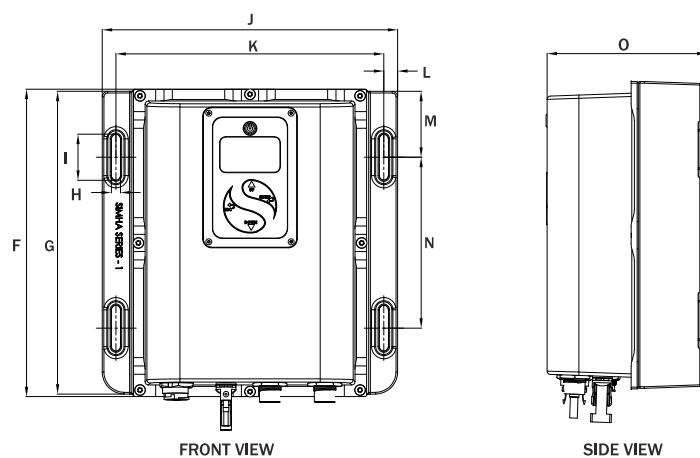
CONTROLLER CODE : 9600000004

**SOLAR PUMPING SYSTEM**

**SOLAR 45 DCSSP 4800**  
**BSP 75 mm (4X6)**  
**PUMPSET CODE** 9500000863  
**DISCHARGE (LPD)** 326400  
**DISCHARGE (LPW)** 68  
**DUTY HEAD** 20 METER



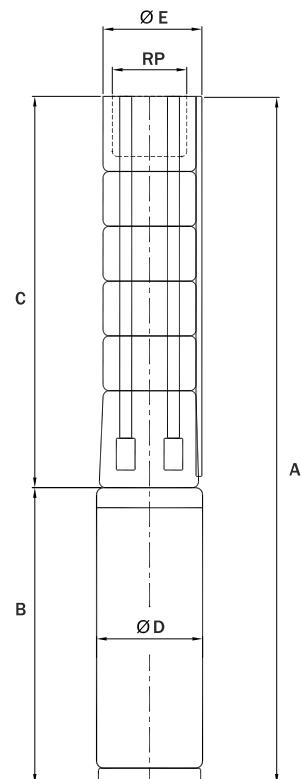
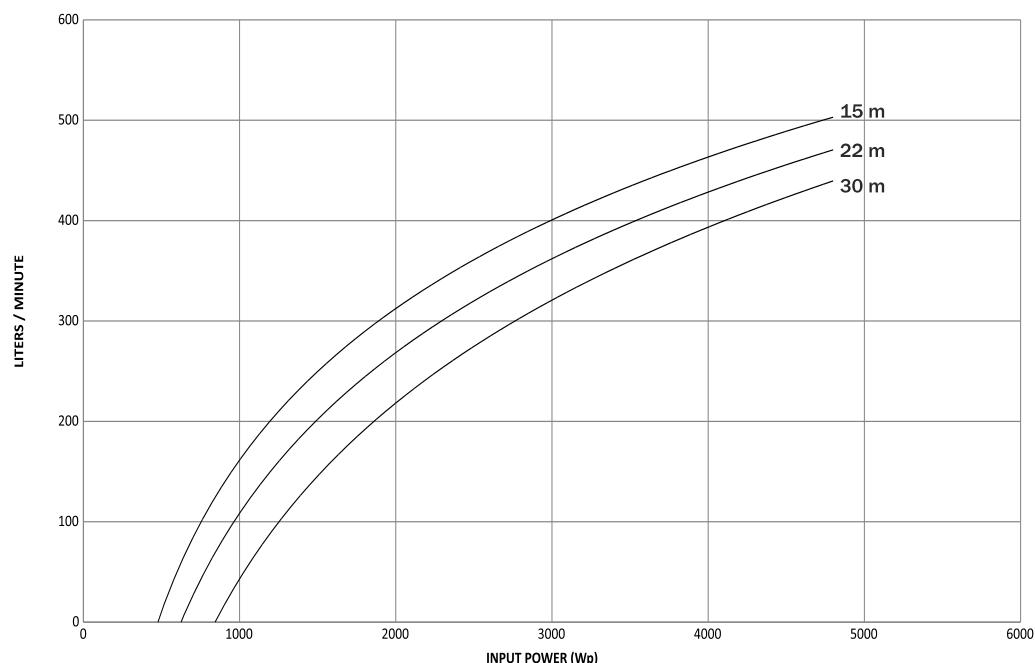
|          | INPUT POWER (Wp) |      |      |      |      |     |     |
|----------|------------------|------|------|------|------|-----|-----|
|          | 4800             | 3700 | 2150 | 1250 | 1050 | 900 | 800 |
| HEAD (m) | FLOW IN LPM      |      |      |      |      |     |     |
| 20       | 766              | 642  | 372  | 88   | 0    |     |     |
| 17       | 901              | 755  | 438  | 104  | 25   | 0   |     |
| 15       | 1021             | 856  | 496  | 117  | 45   | 20  | 0   |



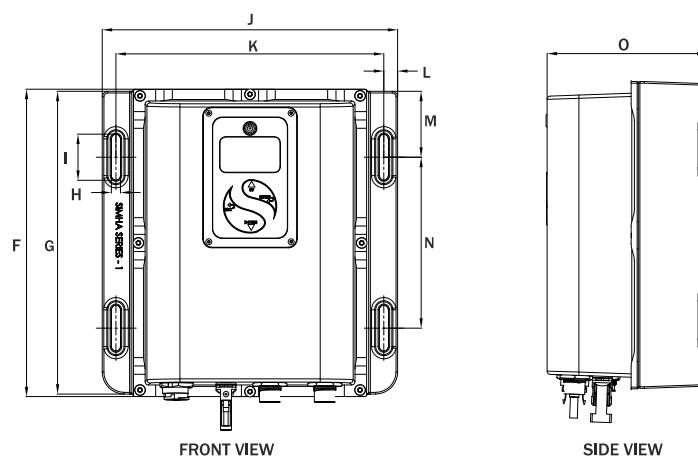
CONTROLLER CODE : 9600000004

**SOLAR PUMPING SYSTEM**

**SOLAR 35.5 DCSSP 4800**  
**BSP 75 mm (6X6)**  
**PUMPSET CODE** 9500000855  
**DISCHARGE (LPD)** 204000  
**DISCHARGE (LPW)** 42.5  
**DUTY HEAD** 30 METER



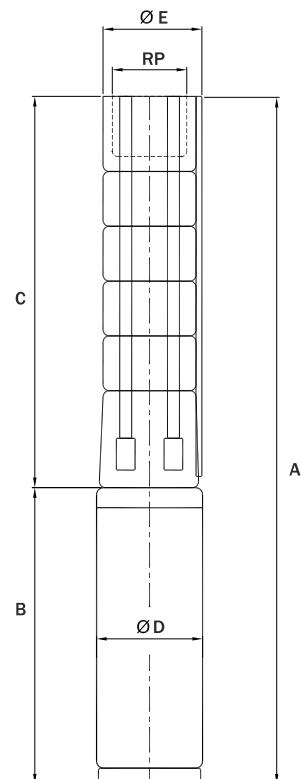
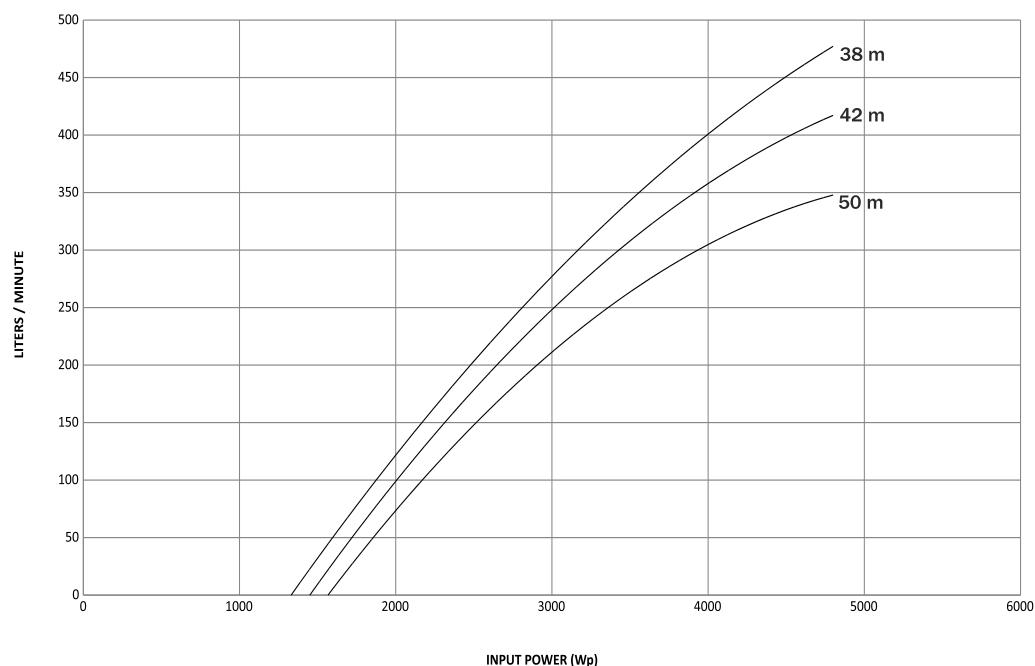
|          | INPUT POWER (Wp) |      |      |      |     |     |     |
|----------|------------------|------|------|------|-----|-----|-----|
|          | 4800             | 3850 | 2400 | 1450 | 900 | 700 | 500 |
| HEAD (m) | FLOW IN LPM      |      |      |      |     |     |     |
| 30       | 432              | 380  | 274  | 155  | 0   |     |     |
| 22       | 465              | 420  | 300  | 220  | 100 | 0   |     |
| 15       | 495              | 450  | 350  | 270  | 150 | 70  | 0   |



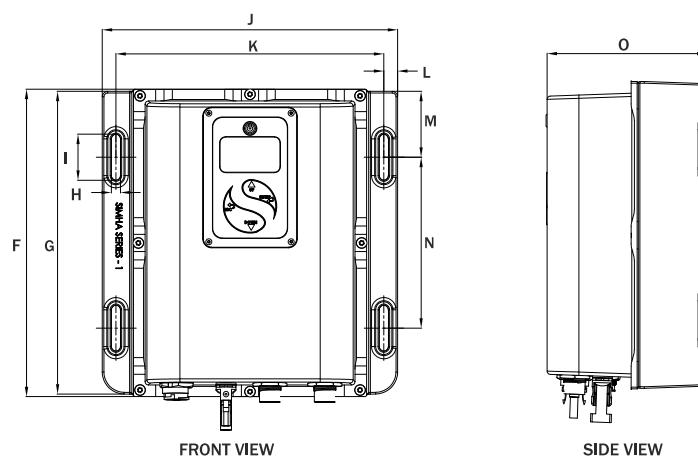
CONTROLLER CODE : 9600000004

**SOLAR PUMPING SYSTEM**

**SOLAR 19 DCSSP 4800**  
**BSP 65 mm (4X6)**  
**PUMPSET CODE** 9500000955  
**DISCHARGE (LPD)** 129600  
**DISCHARGE (LPW)** 27  
**DUTY HEAD** 50 METER



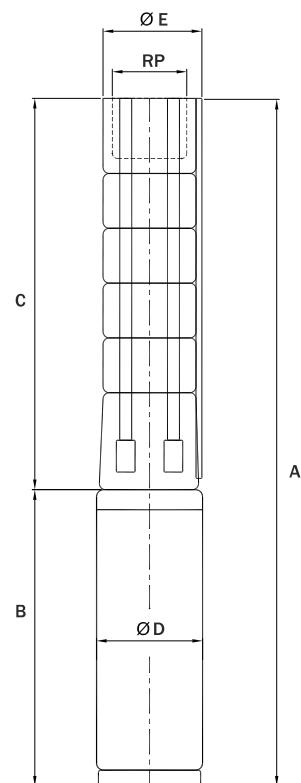
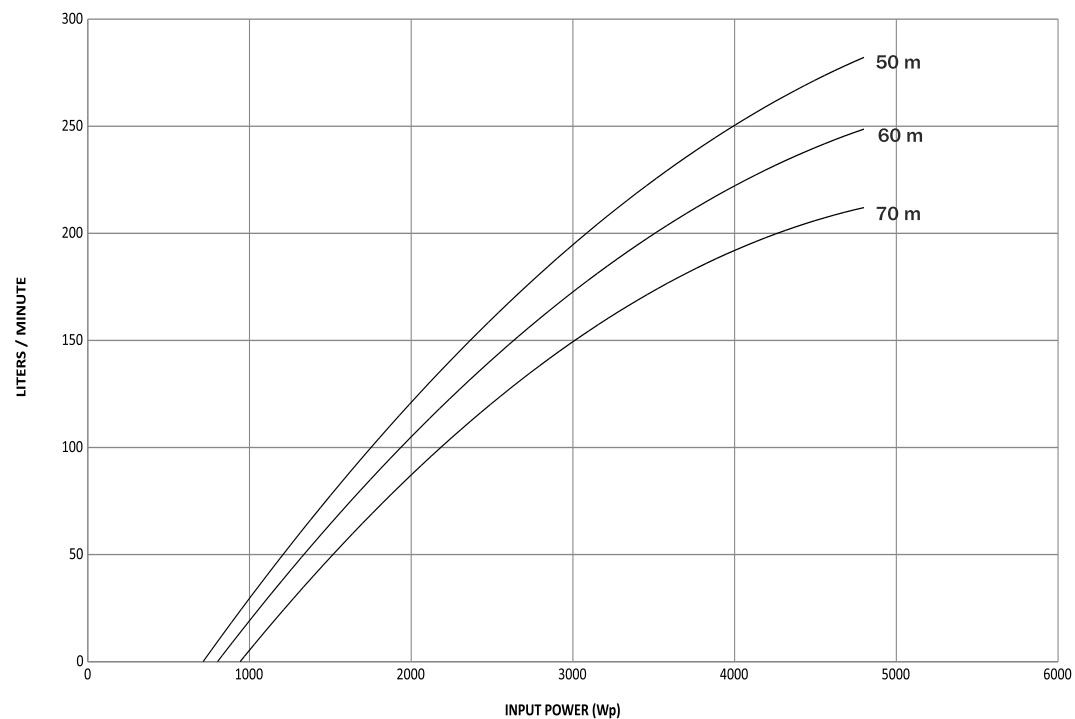
|          | INPUT POWER (Wp) |      |      |      |      |      |      |
|----------|------------------|------|------|------|------|------|------|
|          | 4800             | 3800 | 2900 | 1900 | 1600 | 1400 | 1250 |
| HEAD (m) | FLOW IN LPM      |      |      |      |      |      |      |
| 50       | 350              | 284  | 202  | 64   | 0    |      |      |
| 42       | 417              | 338  | 240  | 76   | 20   | 0    |      |
| 37       | 473              | 384  | 273  | 86   | 40   | 15   | 0    |



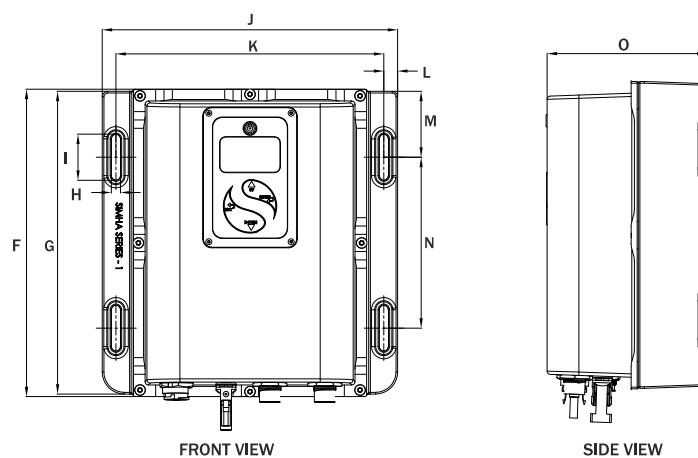
CONTROLLER CODE : 9600000004

**SOLAR PUMPING SYSTEM**

**SOLAR 15 DCSSP 4800**  
**BSP 50 mm (4X4)**  
**PUMPSET CODE** 9500000957  
**DISCHARGE (LPD)** 93600  
**DISCHARGE (LPW)** 19.5  
**DUTY HEAD** 70 METER



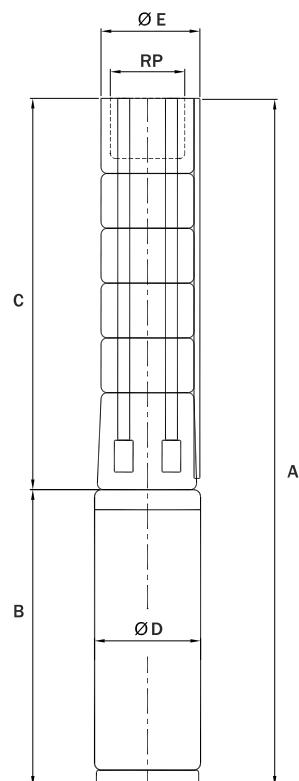
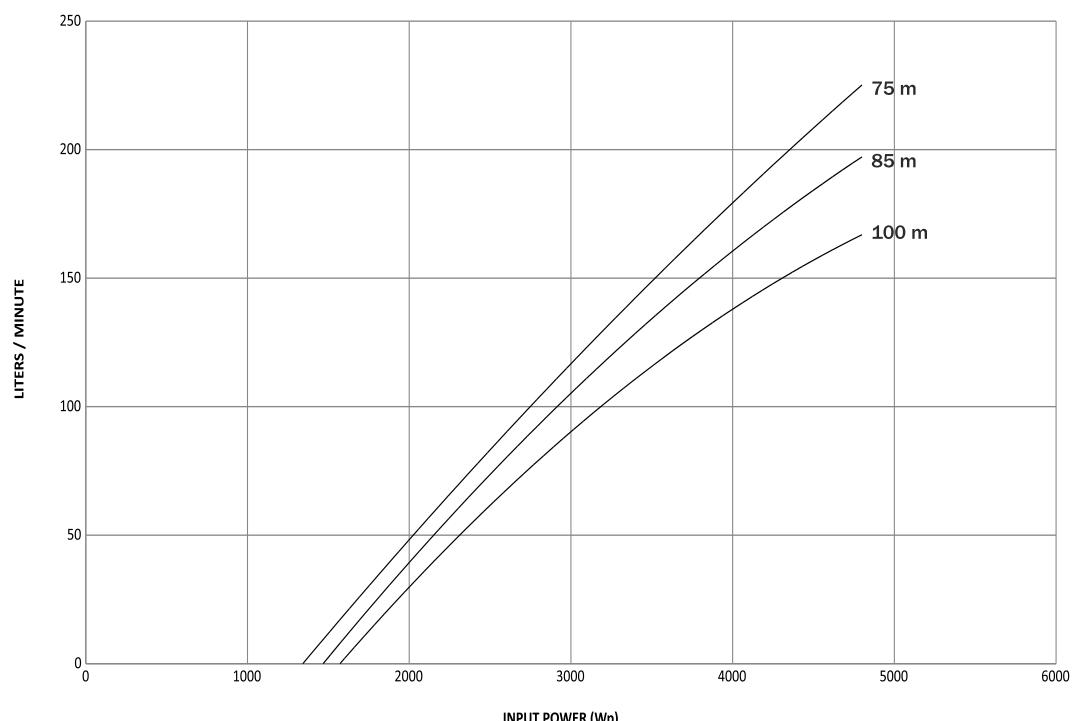
|          | INPUT POWER (Wp) |      |      |      |     |     |     |
|----------|------------------|------|------|------|-----|-----|-----|
|          | 4800             | 3800 | 2900 | 1900 | 954 | 800 | 750 |
| HEAD (m) | FLOW IN LPM      |      |      |      |     |     |     |
| 70       | 213              | 183  | 144  | 82   | 0   |     |     |
| 60       | 249              | 214  | 168  | 96   | 15  | 0   |     |
| 53       | 281              | 242  | 190  | 108  | 28  | 12  | 0   |



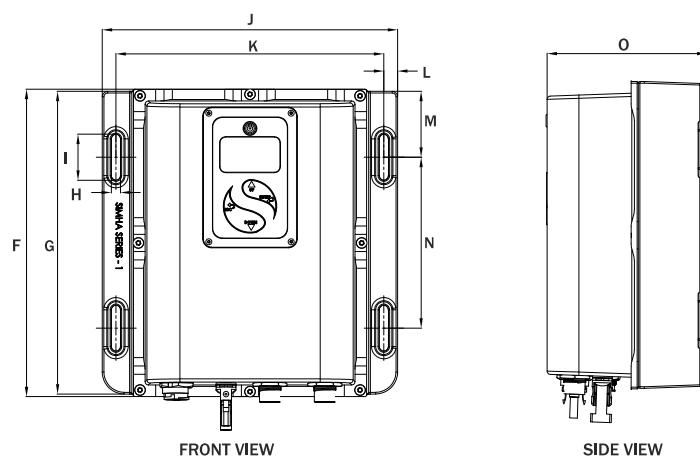
CONTROLLER CODE : 9600000004

**SOLAR PUMPING SYSTEM**

**SOLAR 9.5 DCSSP 4800**  
**BSP 50 mm (4X4)**  
**PUMPSET CODE** 9500000938  
**DISCHARGE (LPD)** 60000  
**DISCHARGE (LPW)** 12.5  
**DUTY HEAD** 100 METER  
**CHOKE CODE** 9600000025



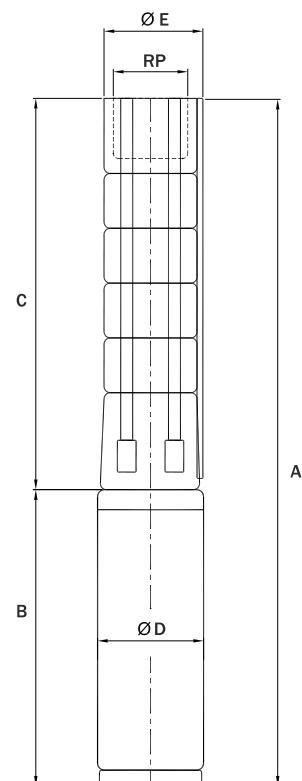
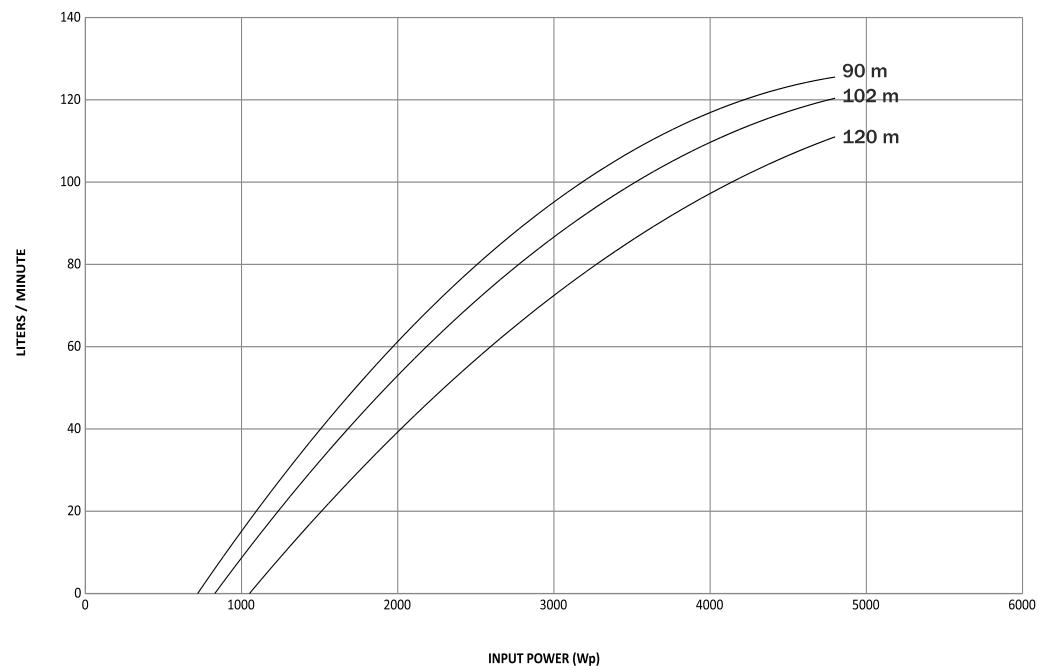
|          | INPUT POWER (Wp) |      |      |      |      |      |      |
|----------|------------------|------|------|------|------|------|------|
|          | 4800             | 3700 | 2800 | 1900 | 1600 | 1450 | 1250 |
| HEAD (m) | FLOW IN LPM      |      |      |      |      |      |      |
| 100      | 167              | 125  | 78   | 26   | 0    |      |      |
| 85       | 196              | 147  | 92   | 31   | 10   | 0    |      |
| 75       | 223              | 167  | 104  | 35   | 15   | 8    | 0    |



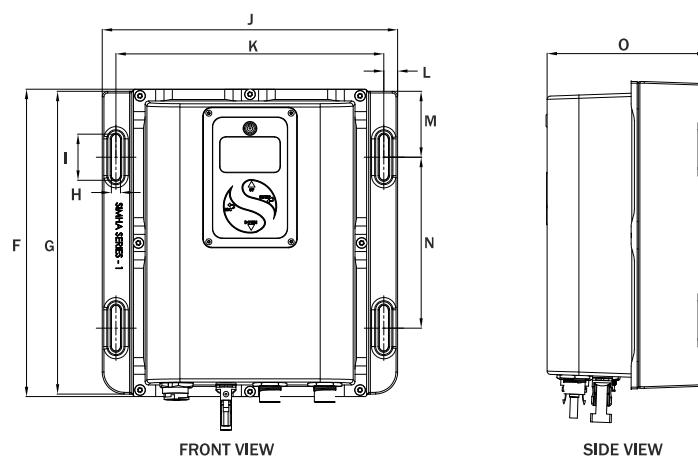
CONTROLLER CODE : 9600000004

**SOLAR PUMPING SYSTEM**

**SOLAR 6 DCSSP 4800**  
**BSP 38 mm (4X4)**  
**PUMPSET CODE** 9500000983  
**DISCHARGE (LPD)** 48000  
**DISCHARGE (LPW)** 10  
**DUTY HEAD** 120 METER  
**CHOKE CODE** 9600000025



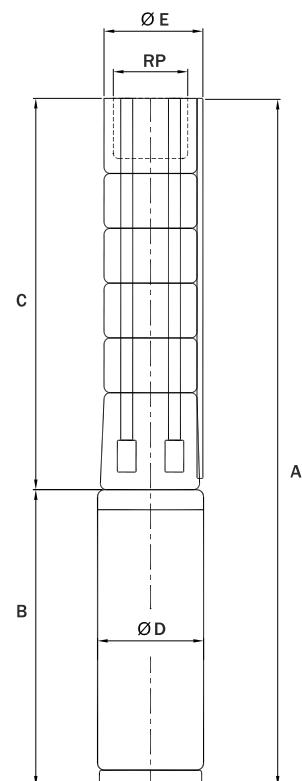
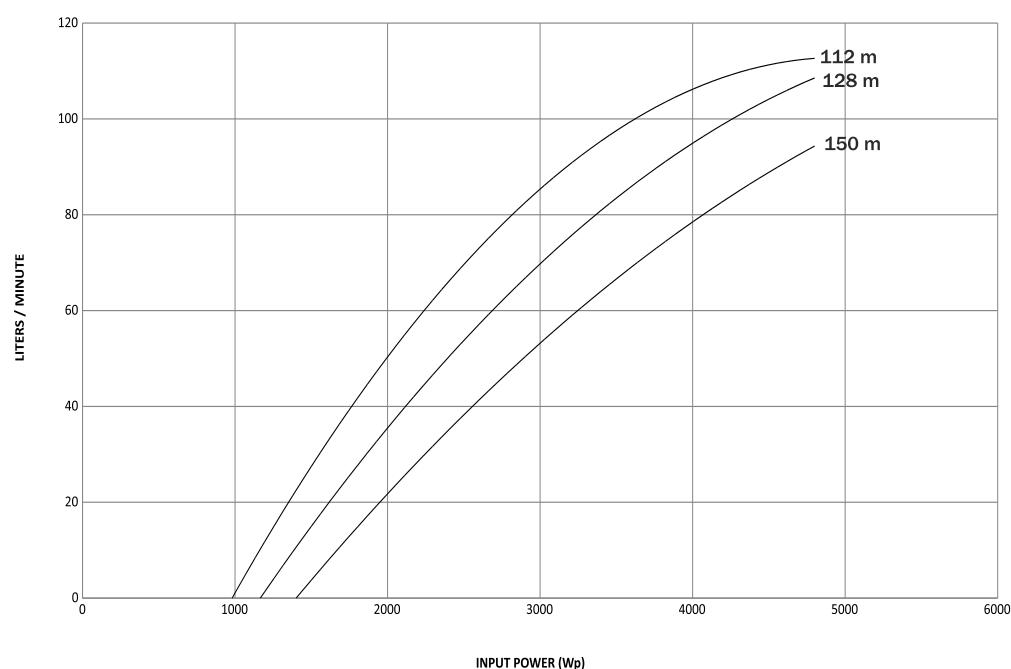
|          | INPUT POWER (Wp) |      |      |      |      |     |     |
|----------|------------------|------|------|------|------|-----|-----|
|          | 4800             | 3850 | 3050 | 2050 | 1050 | 900 | 750 |
| HEAD (m) | FLOW IN LPM      |      |      |      |      |     |     |
| 120      | 111              | 94   | 74   | 41   | 0    |     |     |
| 102      | 120              | 109  | 85   | 56   | 15   | 0   |     |
| 90       | 126              | 113  | 98   | 62   | 20   | 10  | 0   |



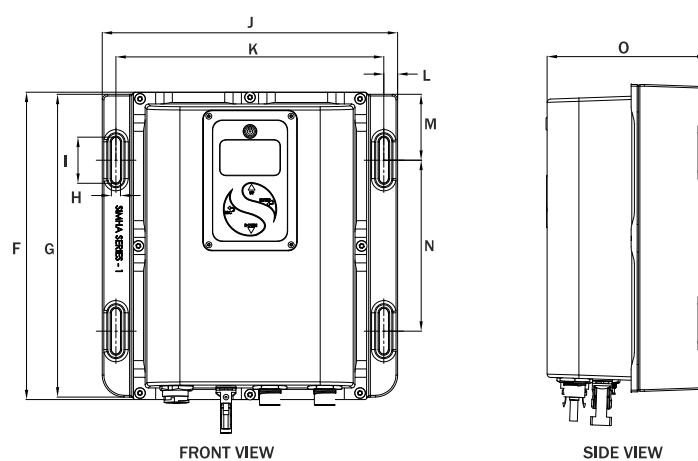
CONTROLLER CODE : 9600000004

**SOLAR PUMPING SYSTEM**

**SOLAR 5 DCSSP 4800**  
**BSP 38 mm (4X4)**  
**PUMPSET CODE** 9500000980  
**DISCHARGE (LPD)** 33600  
**DISCHARGE (LPW)** 7  
**DUTY HEAD** 150 METER  
**CHOKE CODE** 9600000025



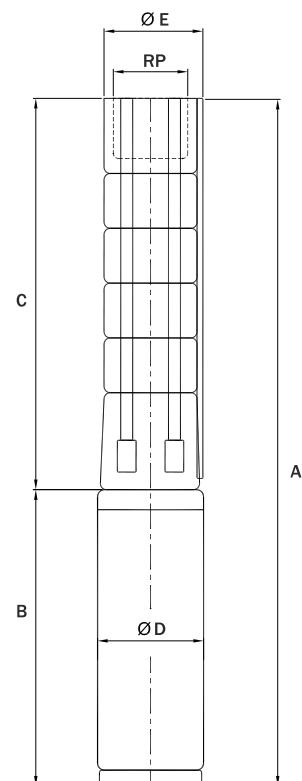
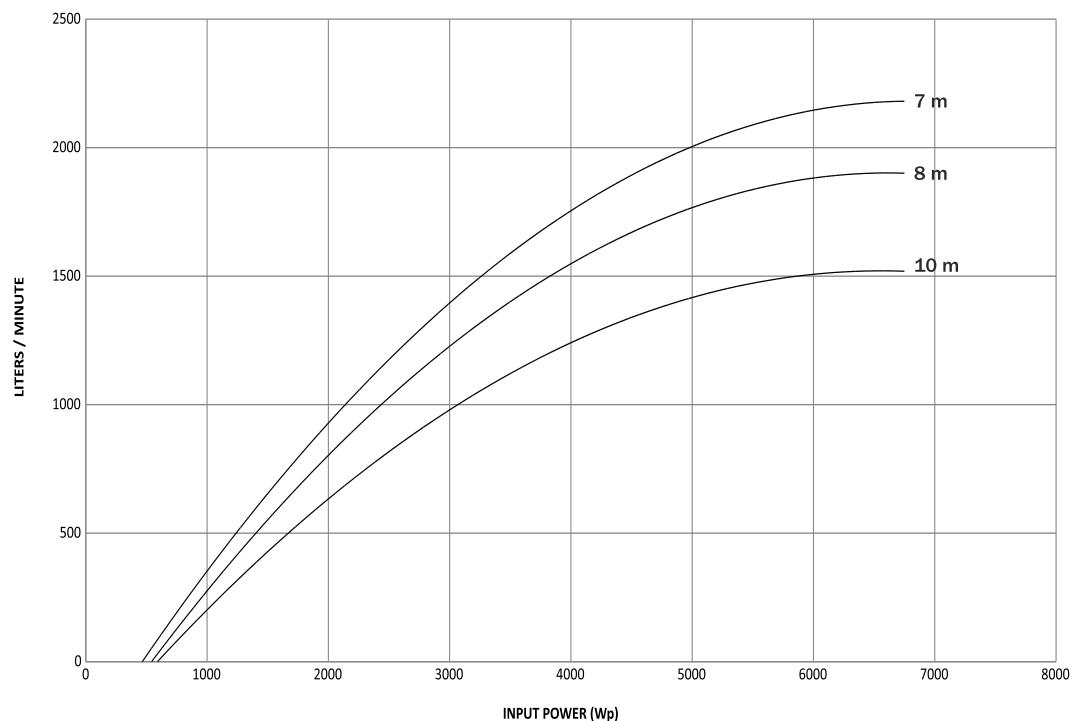
|          | INPUT POWER (Wp) |      |      |      |      |      |      |
|----------|------------------|------|------|------|------|------|------|
|          | 4800             | 3900 | 2900 | 1900 | 1450 | 1200 | 1000 |
| HEAD (m) | FLOW IN LPM      |      |      |      |      |      |      |
| 150      | 95               | 75   | 50   | 21   | 0    |      |      |
| 128      | 110              | 89   | 70   | 30   | 15   | 0    |      |
| 112      | 114              | 103  | 80   | 50   | 29   | 8    | 0    |



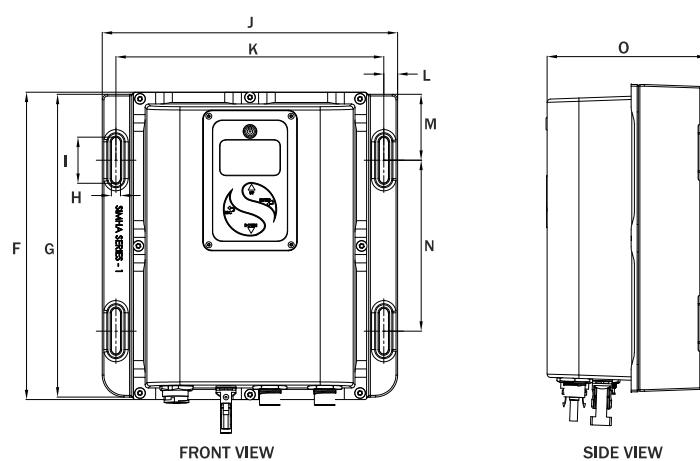
CONTROLLER CODE : 9600000004

## SOLAR PUMPING SYSTEM

**SOLAR 120 DCSSP 6750**  
**BSP 100 mm (4X6)**  
**PUMPSET CODE** 9500000884  
**DISCHARGE (LPD)** 823500  
**DISCHARGE (LPW)** 122  
**DUTY HEAD** 10 METER



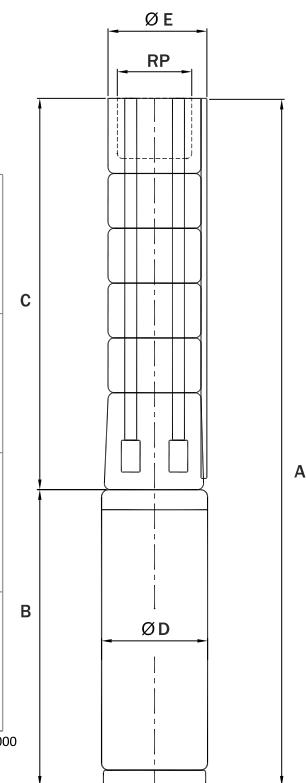
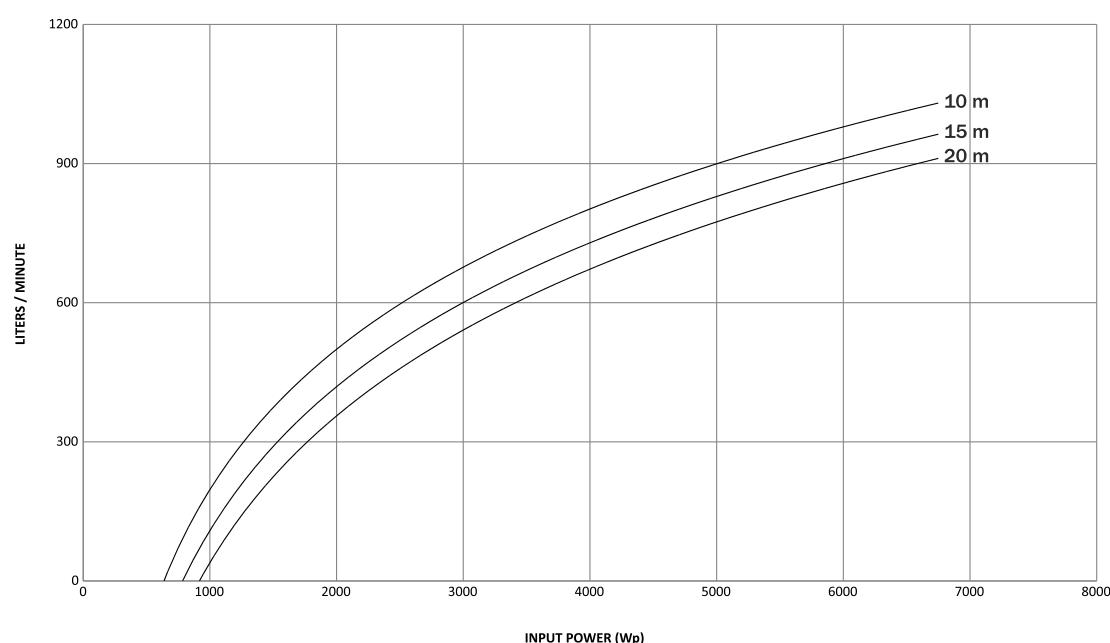
|          | INPUT POWER (Wp) |      |      |      |     |     |     |
|----------|------------------|------|------|------|-----|-----|-----|
|          | 6750             | 5050 | 3000 | 1100 | 750 | 600 | 400 |
| HEAD (m) | FLOW IN LPM      |      |      |      |     |     |     |
| 10       | 1550             | 1350 | 1025 | 325  | 0   |     |     |
| 8        | 1938             | 1688 | 1281 | 406  | 85  | 0   |     |
| 7        | 2214             | 1929 | 1464 | 464  | 130 | 40  | 0   |



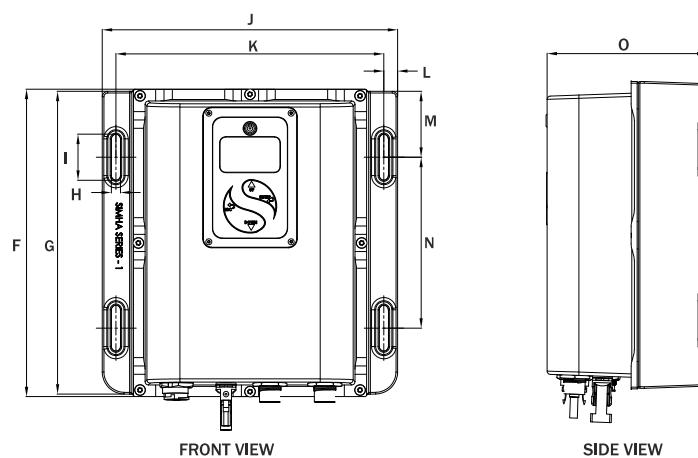
CONTROLLER CODE : 9600000021

**SOLAR PUMPING SYSTEM**

**SOLAR 66 DCSSP 6750**  
**BSP 75 mm (4X6)**  
**PUMPSET CODE** 9500000628  
**DISCHARGE (LPD)** 452250  
**DISCHARGE (LPW)** 67  
**DUTY HEAD** 20 METER



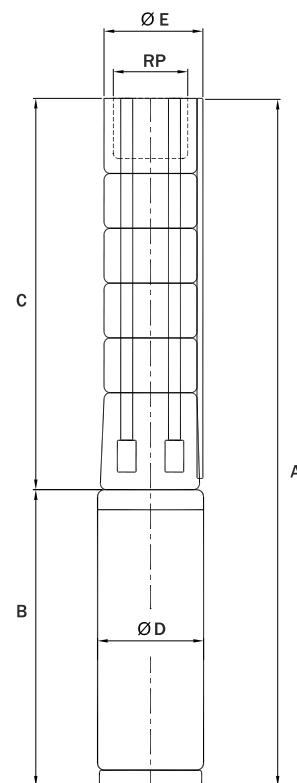
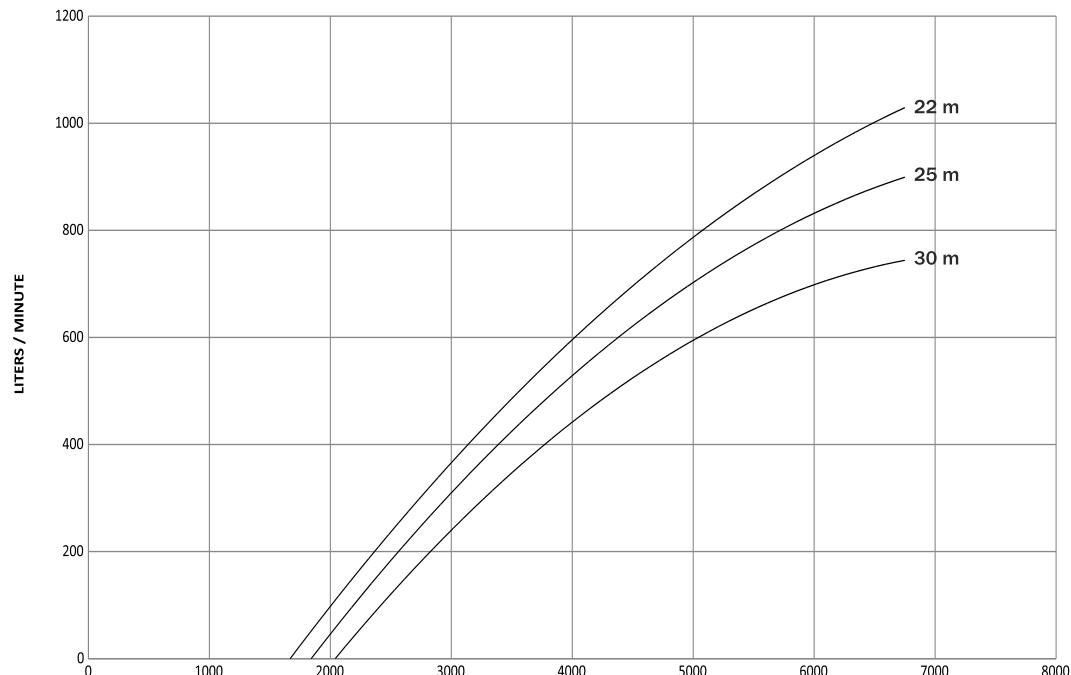
|          | INPUT POWER (Wp) |      |      |      |      |     |     |
|----------|------------------|------|------|------|------|-----|-----|
|          | 6750             | 4750 | 2700 | 1200 | 1000 | 800 | 600 |
| HEAD (m) | FLOW IN LPM      |      |      |      |      |     |     |
| 20       | 902              | 750  | 505  | 160  | 0    |     |     |
| 15       | 955              | 800  | 575  | 200  | 100  | 0   |     |
| 10       | 990              | 900  | 675  | 300  | 150  | 70  | 0   |



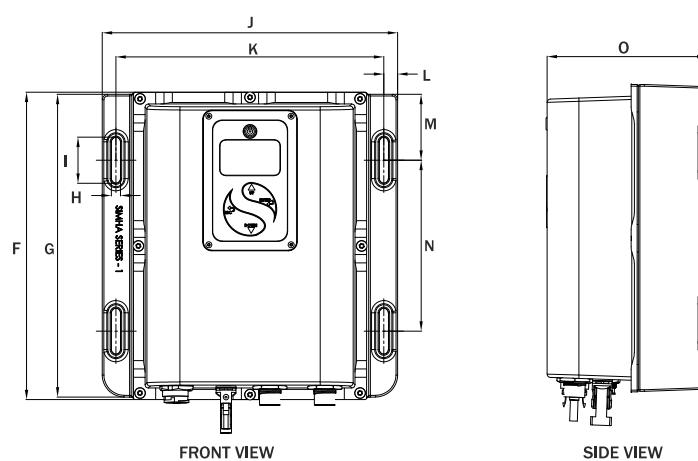
CONTROLLER CODE : 9600000021

**SOLAR PUMPING SYSTEM**

**SOLAR 42.5 DCSSP 6750**  
**BSP 75 mm (4X6)**  
**PUMPSET CODE** 9500000620  
**DISCHARGE (LPD)** 297000  
**DISCHARGE (LPW)** 44  
**DUTY HEAD** 30 METER



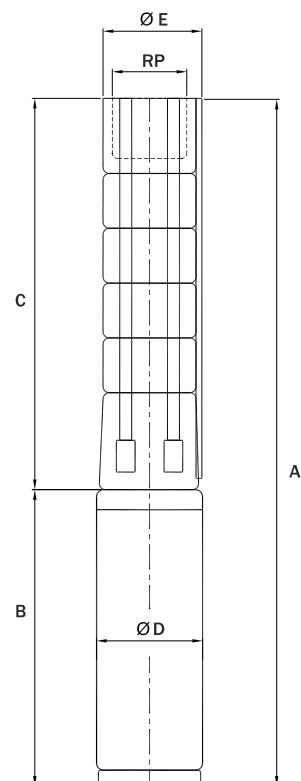
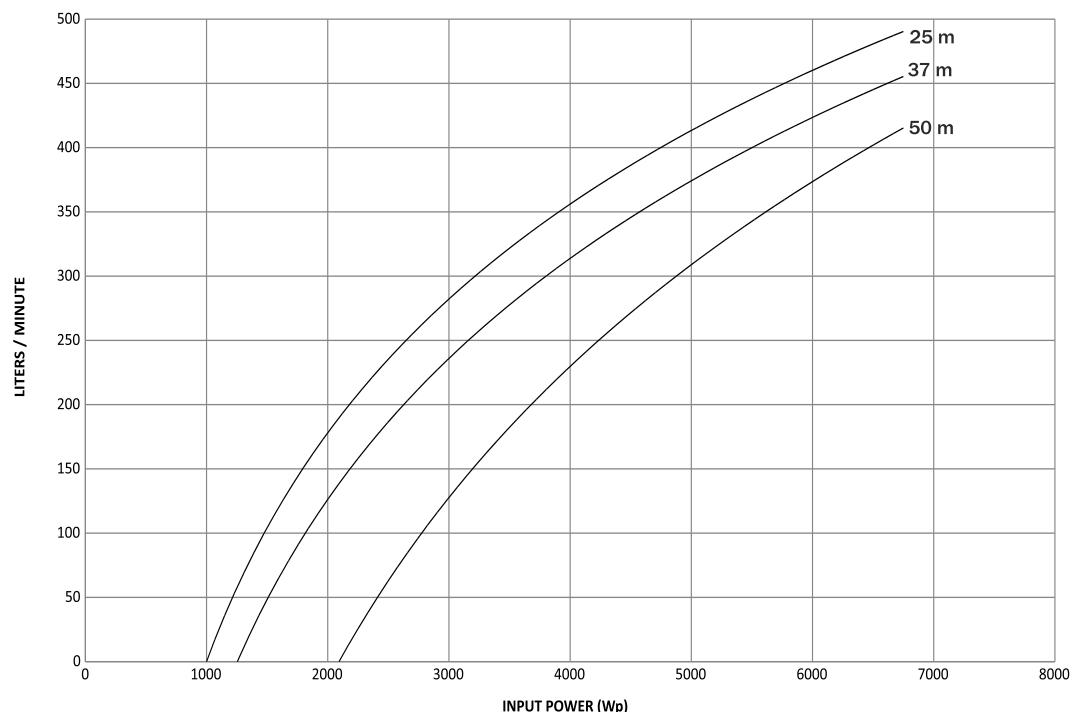
|          | INPUT POWER (W <sub>p</sub> ) |      |      |      |      |      |      |
|----------|-------------------------------|------|------|------|------|------|------|
|          | 6750                          | 5600 | 4300 | 2450 | 2200 | 1800 | 1600 |
| HEAD (m) | FLOW IN LPM                   |      |      |      |      |      |      |
| 30       | 751                           | 650  | 492  | 157  | 0    |      |      |
| 25       | 901                           | 780  | 590  | 188  | 70   | 0    |      |
| 22       | 1024                          | 886  | 671  | 214  | 125  | 45   | 0    |



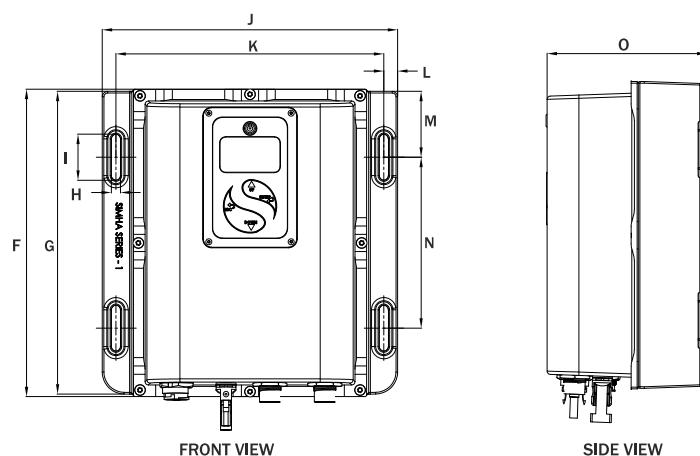
CONTROLLER CODE : 9600000021

**SOLAR PUMPING SYSTEM**

**SOLAR 26 DCSSP 6750**  
**BSP 65 mm (4X6)**  
**PUMPSET CODE** 9500001624  
**DISCHARGE (LPD)** 182250  
**DISCHARGE (LPW)** 27  
**DUTY HEAD** 50 METER



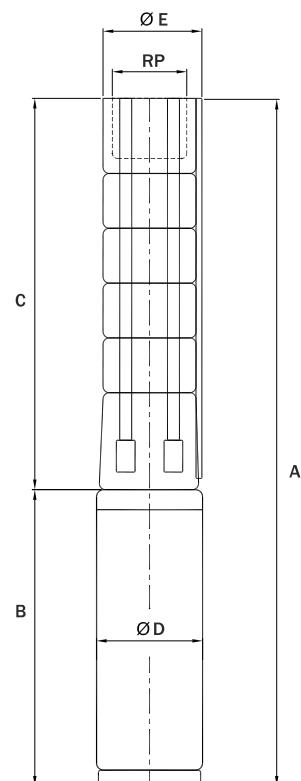
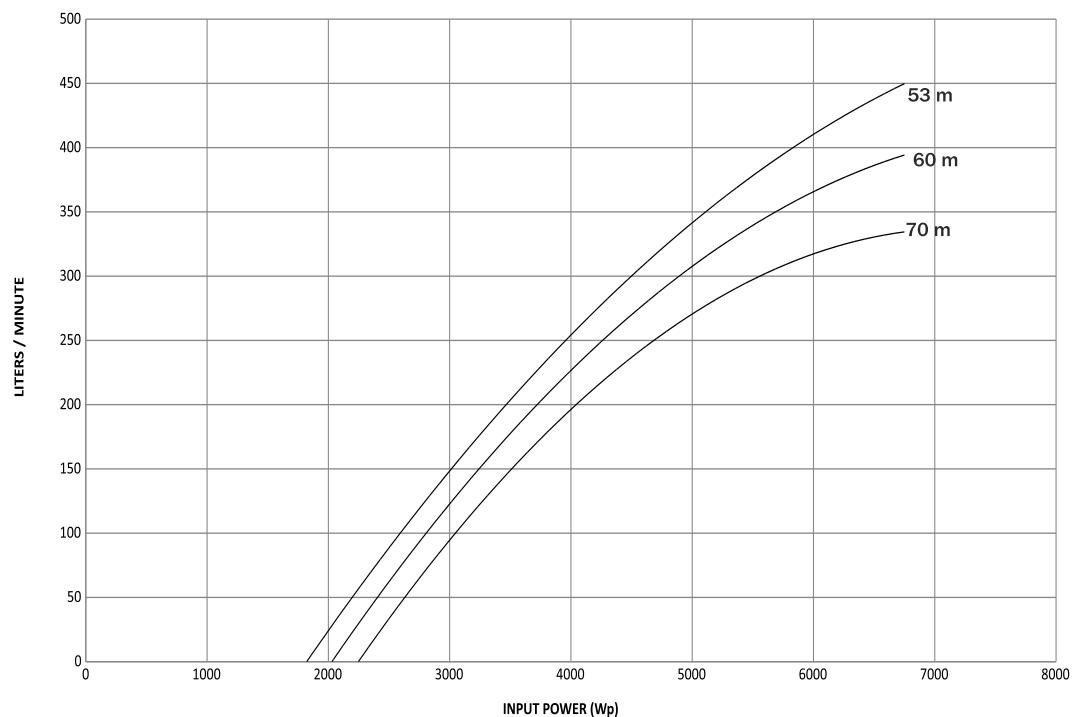
|          | INPUT POWER (Wp) |      |      |      |      |      |      |
|----------|------------------|------|------|------|------|------|------|
|          | 6750             | 5450 | 4100 | 2700 | 2200 | 1500 | 1000 |
| HEAD (m) | FLOW IN LPM      |      |      |      |      |      |      |
| 50       | 395              | 342  | 270  | 94   | 0    |      |      |
| 37       | 438              | 388  | 325  | 240  | 190  | 0    |      |
| 25       | 475              | 430  | 370  | 295  | 200  | 80   | 0    |



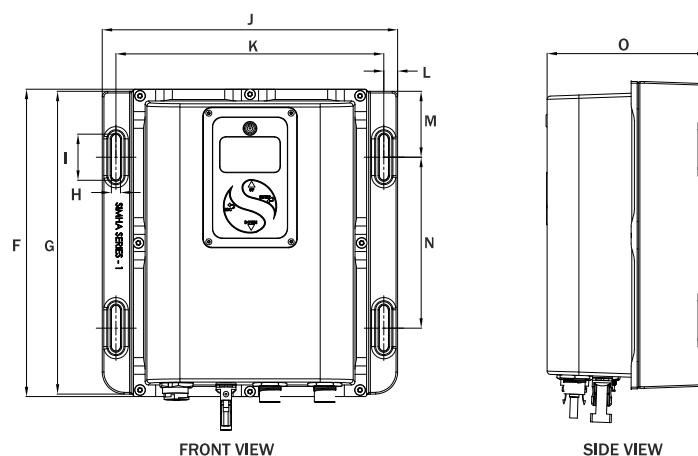
CONTROLLER CODE : 9600000021

**SOLAR PUMPING SYSTEM**

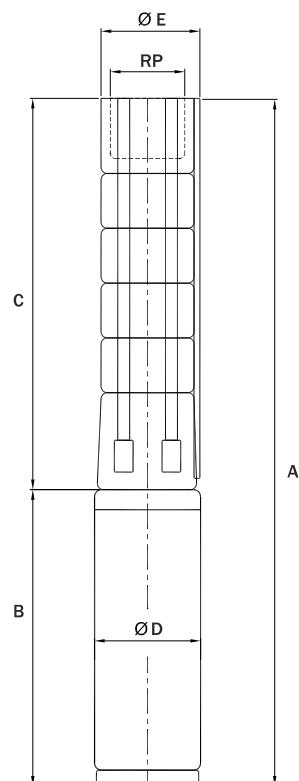
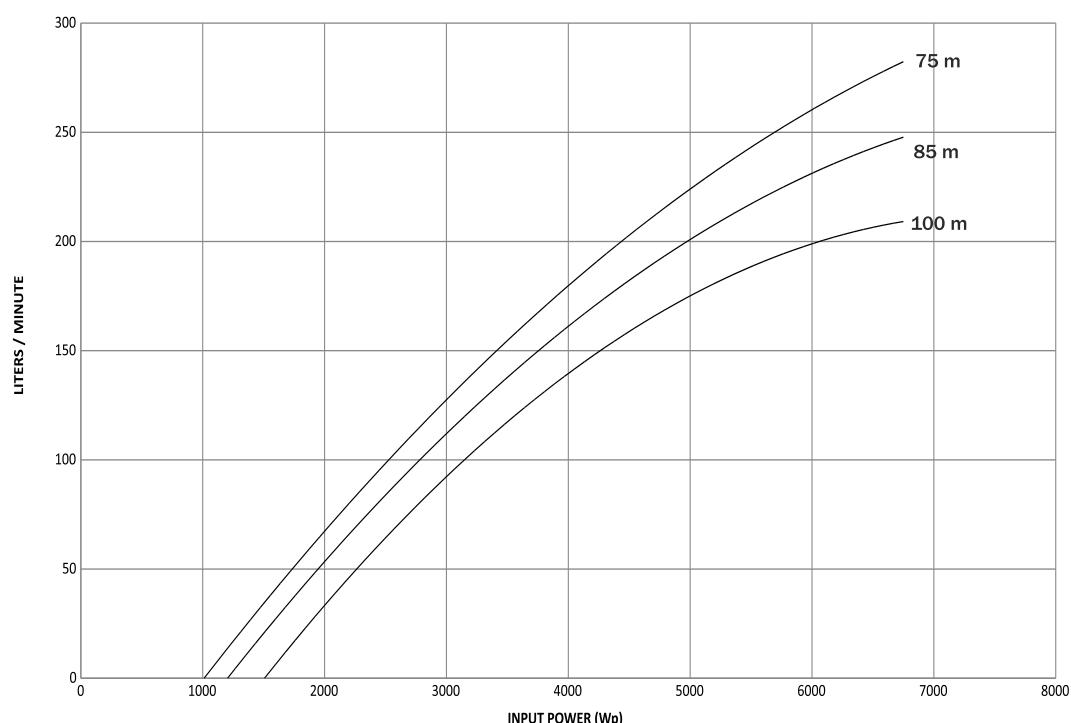
**SOLAR 20 DCSSP 6750**  
**BSP 65 mm (4X6)**  
**PUMPSET CODE** 9500001626  
**DISCHARGE (LPD)** 131625  
**DISCHARGE (LPW)** 19.5  
**DUTY HEAD** 70 METER



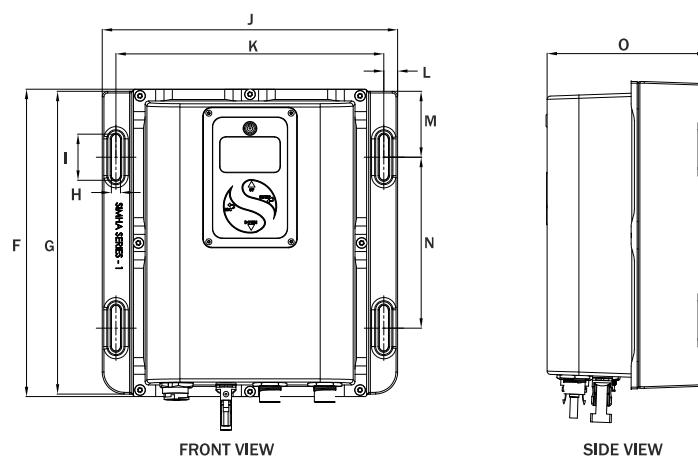
|          | INPUT POWER (W <sub>p</sub> ) |      |      |      |      |      |      |
|----------|-------------------------------|------|------|------|------|------|------|
|          | 6750                          | 5650 | 4050 | 2800 | 2300 | 2000 | 1800 |
| HEAD (m) | FLOW IN LPM                   |      |      |      |      |      |      |
| 70       | 341                           | 290  | 209  | 77   | 0    |      |      |
| 60       | 398                           | 338  | 244  | 90   | 35   | 0    |      |
| 53       | 450                           | 383  | 276  | 102  | 65   | 30   | 0    |

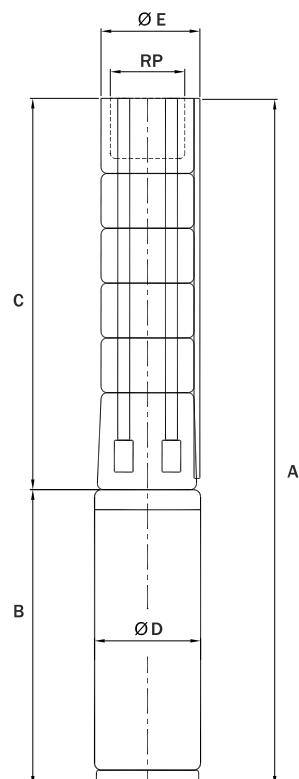
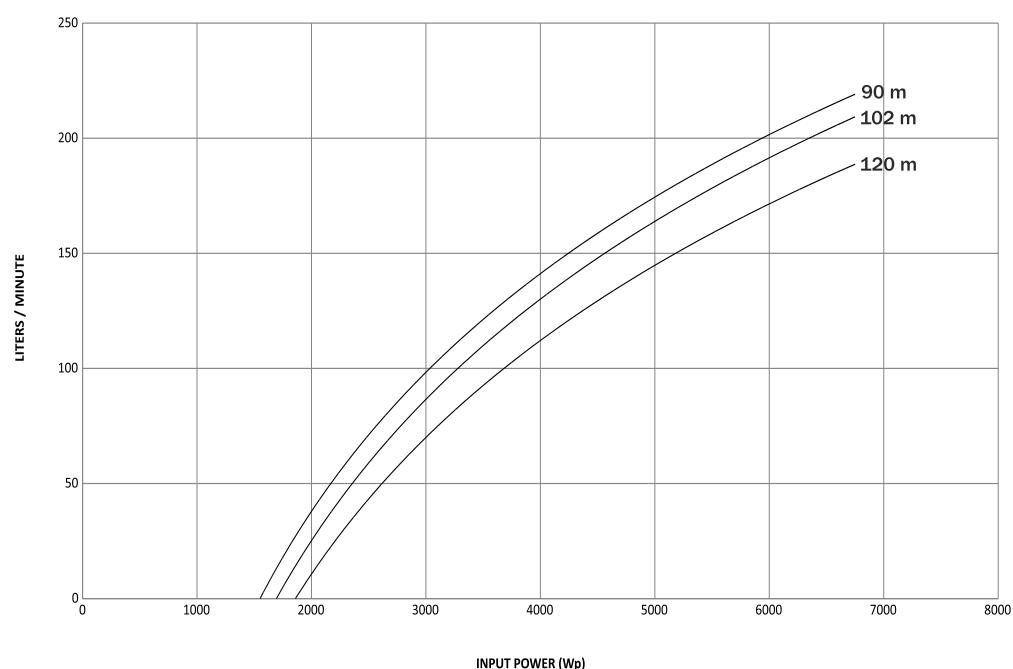


CONTROLLER CODE : 9600000021

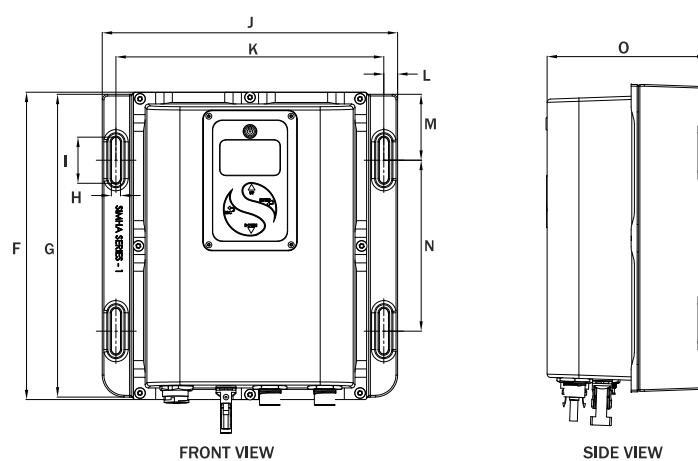
**SOLAR PUMPING SYSTEM**
**SOLAR 15 DCSSP 6750**
**BSP 50 mm (4X4)**
**PUMPSET CODE 9500001627**
**DISCHARGE (LPD) 87750**
**DISCHARGE (LPW) 13**
**DUTY HEAD 100 METER**
**CHOKE CODE 9600000025**


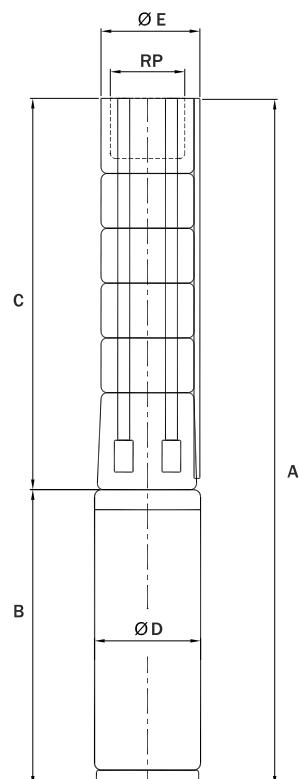
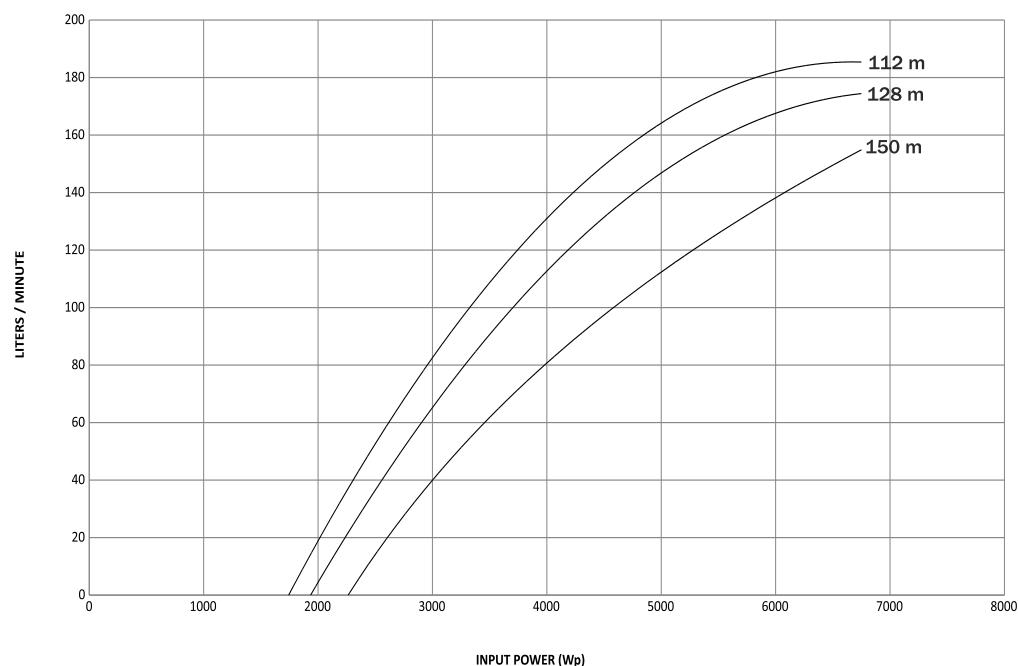
|          | INPUT POWER (Wp) |      |      |      |      |      |      |
|----------|------------------|------|------|------|------|------|------|
|          | 6750             | 4750 | 3400 | 2050 | 1600 | 1200 | 1000 |
| HEAD (m) | FLOW IN LPM      |      |      |      |      |      |      |
| 100      | 210              | 165  | 112  | 45   | 0    |      |      |
| 85       | 247              | 194  | 132  | 53   | 30   | 0    |      |
| 75       | 280              | 220  | 149  | 60   | 40   | 20   | 0    |


**CONTROLLER CODE : 9600000021**

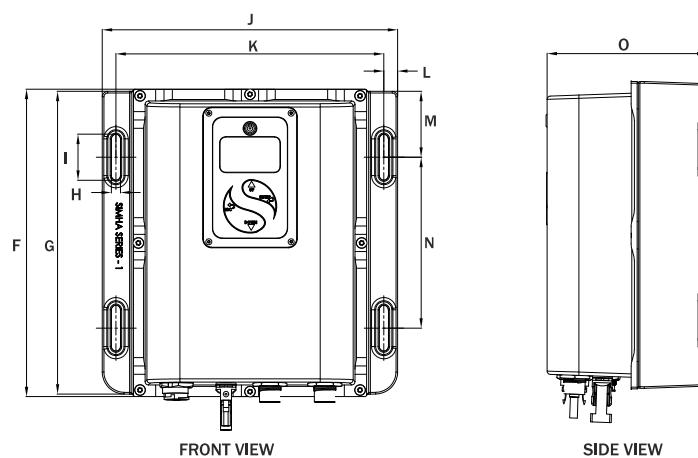
**SOLAR PUMPING SYSTEM**
**SOLAR 11 DCSSP 6750**
**BSP 50 mm (4X4)**
**PUMPSET CODE 9500000823**
**DISCHARGE (LPD) 74250**
**DISCHARGE (LPW) 11**
**DUTY HEAD 120 METER**
**CHOKE CODE 9600000025**


|          | INPUT POWER (Wp) |      |      |      |      |      |      |
|----------|------------------|------|------|------|------|------|------|
|          | 6750             | 5950 | 4950 | 2950 | 1800 | 1750 | 1600 |
| HEAD (m) | FLOW IN LPM      |      |      |      |      |      |      |
| 120      | 190              | 173  | 142  | 60   | 0    |      |      |
| 102      | 205              | 190  | 170  | 80   | 15   | 0    |      |
| 90       | 210              | 200  | 185  | 95   | 25   | 18   | 0    |


**CONTROLLER CODE : 9600000021**

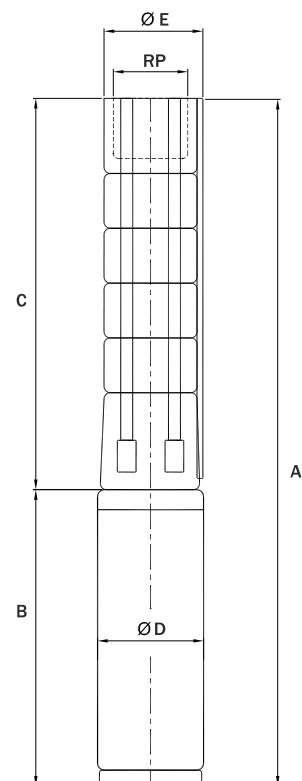
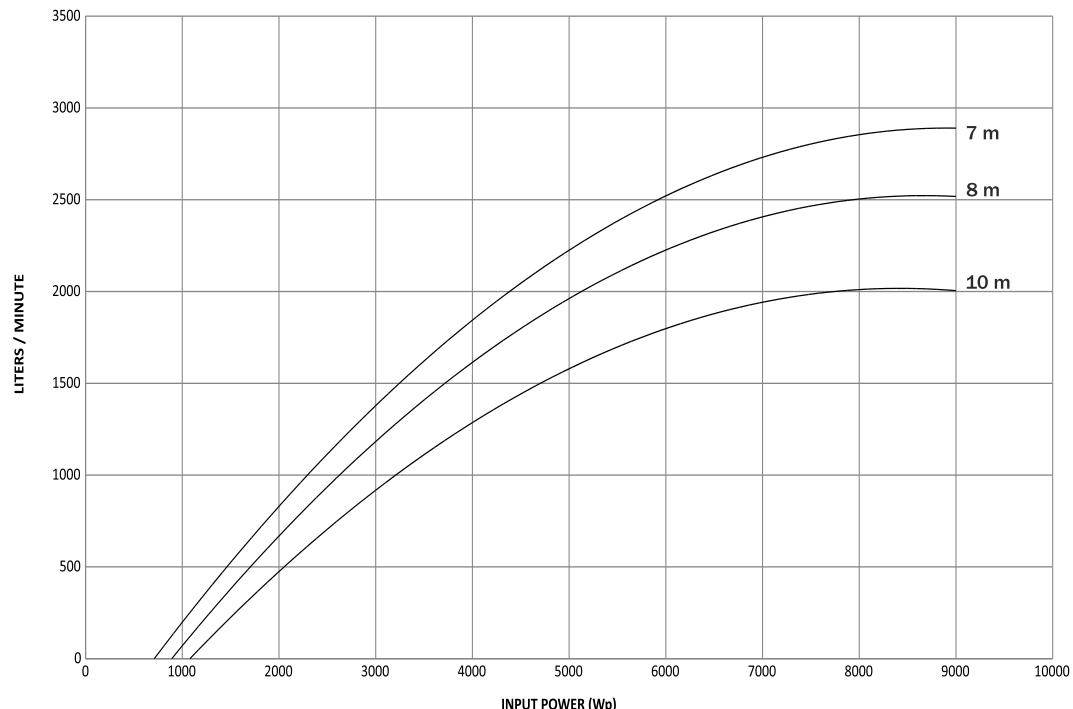
**SOLAR PUMPING SYSTEM**
**SOLAR 10 DCSSP 6750**
**BSP 50 mm (4X4)**
**PUMPSET CODE 9500000834**
**DISCHARGE (LPD) 57375**
**DISCHARGE (LPW) 8.5**
**DUTY HEAD 150 METER**
**CHOKE CODE 9600000025**


|          | INPUT POWER (Wp) |      |      |      |      |      |      |
|----------|------------------|------|------|------|------|------|------|
|          | 6750             | 5600 | 4200 | 2800 | 2200 | 2000 | 1750 |
| HEAD (m) | FLOW IN LPM      |      |      |      |      |      |      |
| 150      | 159              | 129  | 80   | 29   | 0    |      |      |
| 128      | 175              | 160  | 120  | 55   | 22   | 0    |      |
| 112      | 188              | 170  | 145  | 68   | 35   | 18   | 0    |

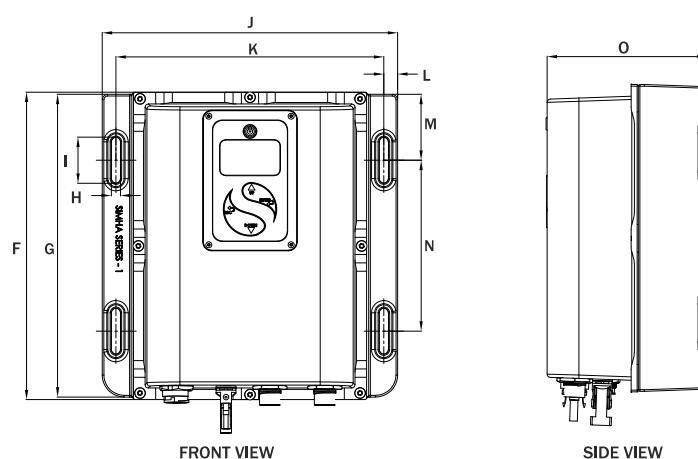

**CONTROLLER CODE : 9600000021**

**SOLAR PUMPING SYSTEM**

**SOLAR 122 DCSSP 9000**  
**BSP 100 mm (6X8)**  
**PUMPSET CODE** 9500000885  
**DISCHARGE (LPD)** 1129500  
**DISCHARGE (LPW)** 125.5  
**DUTY HEAD** 10 METER



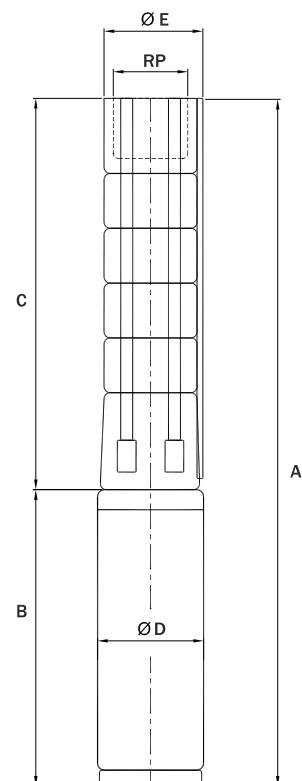
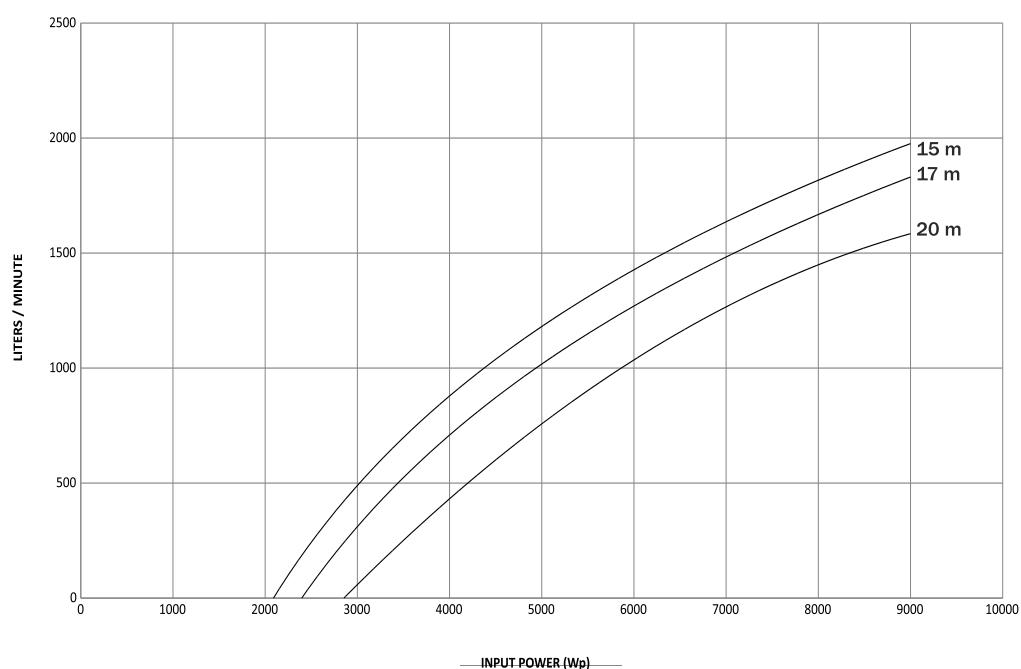
|          | INPUT POWER (Wp) |      |      |      |      |     |     |
|----------|------------------|------|------|------|------|-----|-----|
|          | 9000             | 7150 | 4450 | 1350 | 1200 | 800 | 600 |
| HEAD (m) | FLOW IN LPM      |      |      |      |      |     |     |
| 10       | 2040             | 1880 | 1480 | 200  | 0    |     |     |
| 8        | 2550             | 2350 | 1850 | 300  | 100  | 0   |     |
| 7        | 2914             | 2686 | 2114 | 400  | 200  | 100 | 0   |



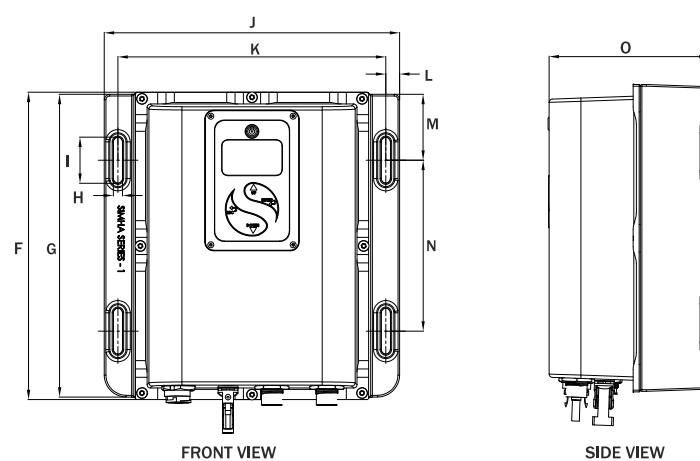
CONTROLLER CODE : 9600000022

## SOLAR PUMPING SYSTEM

**SOLAR 96 DCSSP 9000**  
**BSP 100 mm (6X8)**  
**PUMPSET CODE** 9500000455  
**DISCHARGE (LPD)** 585000  
**DISCHARGE (LPW)** 65  
**DUTY HEAD** 20 METER



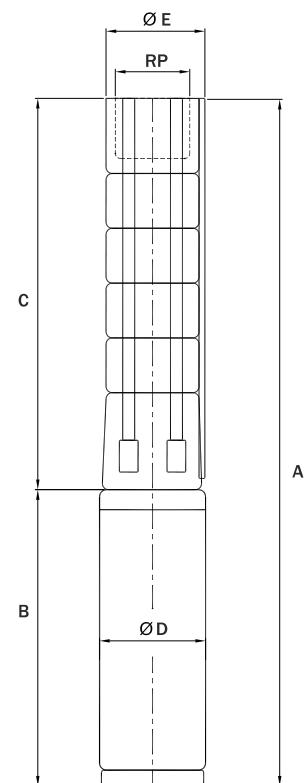
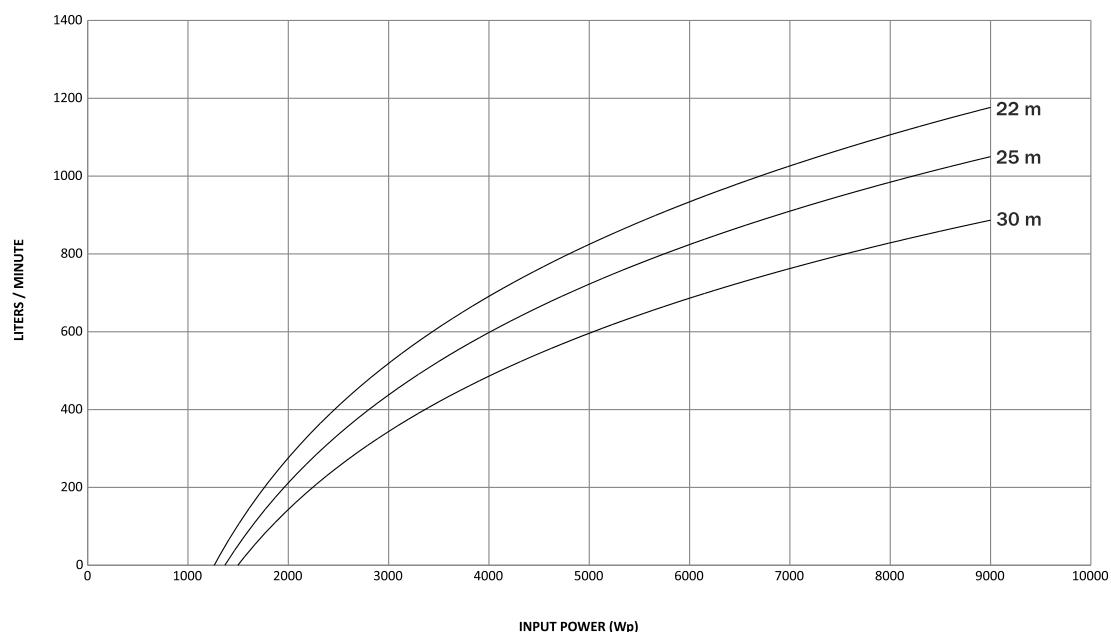
|          | INPUT POWER (Wp) |      |      |      |      |      |      |
|----------|------------------|------|------|------|------|------|------|
|          | 9000             | 8100 | 6250 | 4500 | 2900 | 2500 | 2200 |
| HEAD (m) | FLOW IN LPM      |      |      |      |      |      |      |
| 20       | 1600             | 1450 | 1070 | 645  | 0    |      |      |
| 17       | 1840             | 1685 | 1250 | 960  | 300  | 0    |      |
| 15       | 1960             | 1860 | 1440 | 1050 | 525  | 250  | 0    |



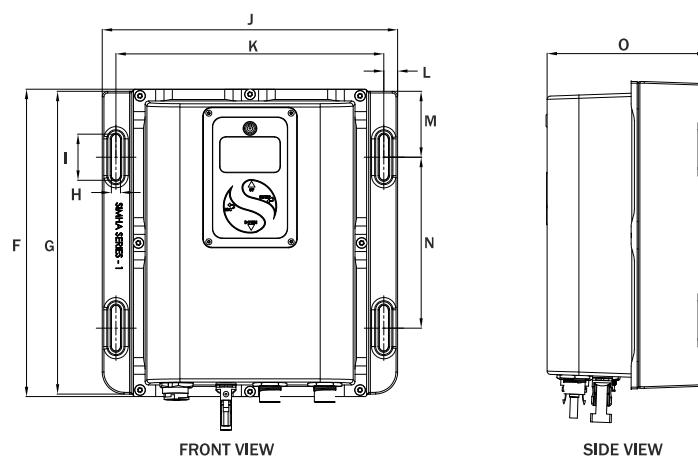
CONTROLLER CODE : 9600000022

**SOLAR PUMPING SYSTEM**

**SOLAR 52.5 DCSSP 9000**  
**BSP 75 mm (6X6)**  
**PUMPSET CODE** 9500000873  
**DISCHARGE (LPD)** 432000  
**DISCHARGE (LPW)** 48  
**DUTY HEAD** 30 METER



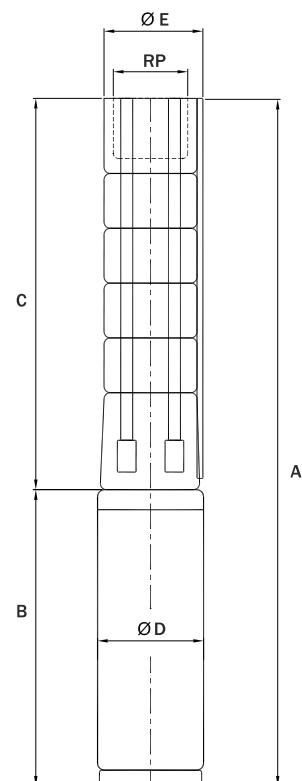
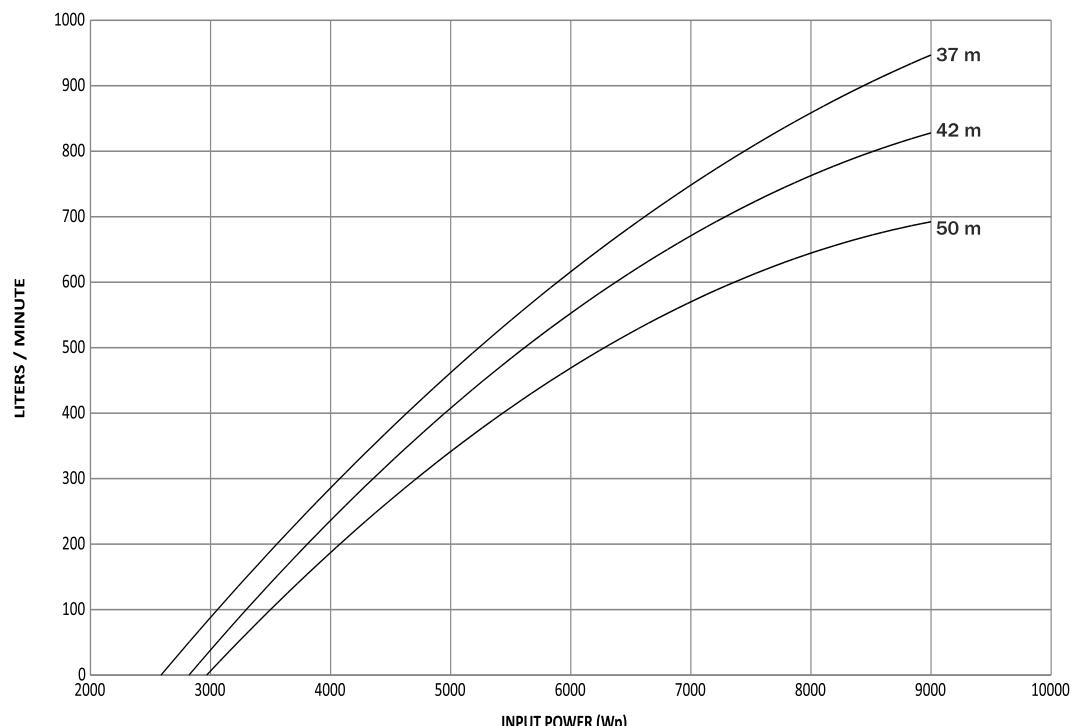
|          | INPUT POWER (Wp) |      |      |      |      |      |      |
|----------|------------------|------|------|------|------|------|------|
|          | 9000             | 6300 | 3600 | 2250 | 1600 | 1400 | 1200 |
| HEAD (m) | FLOW IN LPM      |      |      |      |      |      |      |
| 30       | 875              | 710  | 445  | 235  | 0    |      |      |
| 25       | 1050             | 852  | 534  | 282  | 100  | 0    |      |
| 22       | 1193             | 968  | 607  | 320  | 130  | 70   | 0    |



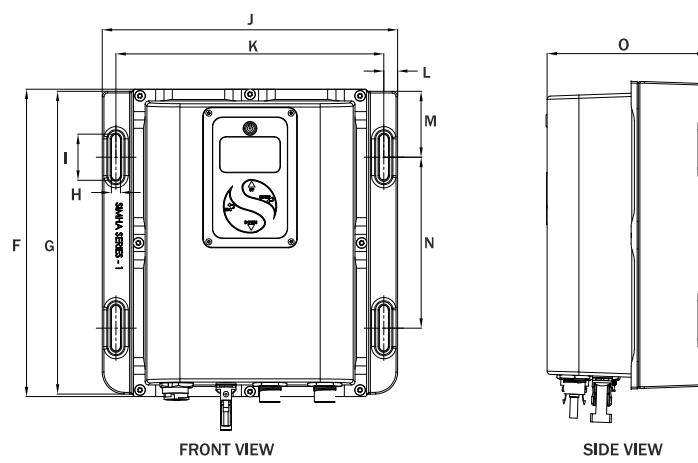
CONTROLLER CODE : 9600000022

**SOLAR PUMPING SYSTEM**

**SOLAR 40 DCSSP 9000**  
**BSP 75 mm (6X6)**  
**PUMPSET CODE** 9500001460  
**DISCHARGE (LPD)** 256500  
**DISCHARGE (LPW)** 28.5  
**DUTY HEAD** 50 METER



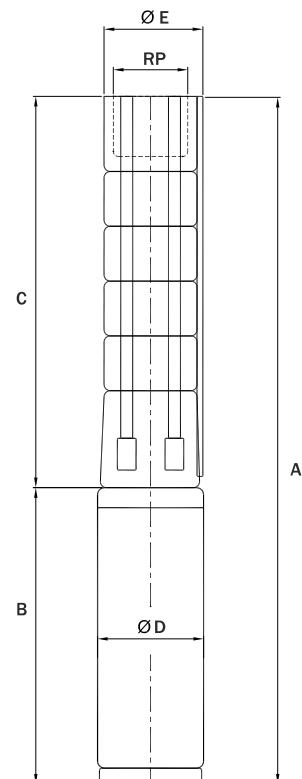
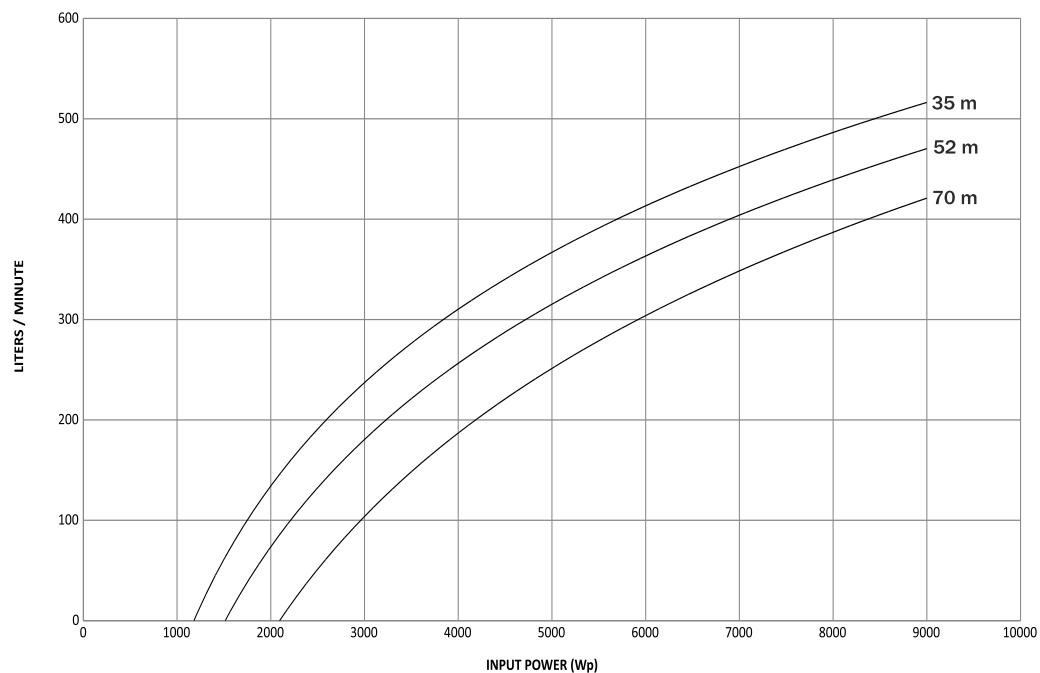
|          | INPUT POWER (Wp) |      |      |      |      |      |   |  |
|----------|------------------|------|------|------|------|------|---|--|
|          | 9000             | 7450 | 5400 | 3650 | 3100 | 2800 |   |  |
| HEAD (m) | FLOW IN LPM      |      |      |      |      |      |   |  |
| 50       | 701              | 589  | 399  | 158  | 0    |      |   |  |
| 42       | 835              | 701  | 475  | 188  | 38   | 0    |   |  |
| 37       | 947              | 796  | 539  | 214  | 94   | 38   | 0 |  |



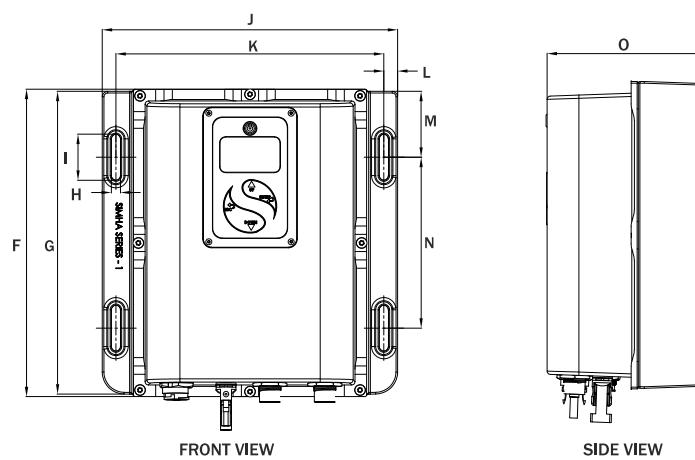
CONTROLLER CODE : 9600000022

**SOLAR PUMPING SYSTEM**

**SOLAR 23 DCSSP 9000**  
**BSP 65 mm (6X6)**  
**PUMPSET CODE** 9500001510  
**DISCHARGE (LPD)** 180000  
**DISCHARGE (LPW)** 20  
**DUTY HEAD** 70 METER



|          | INPUT POWER (Wp) |      |      |      |      |      |      |
|----------|------------------|------|------|------|------|------|------|
|          | 9000             | 7200 | 5400 | 3600 | 2150 | 1600 | 1200 |
| HEAD (m) | FLOW IN LPM      |      |      |      |      |      |      |
| 70       | 415              | 356  | 278  | 166  | 0    |      |      |
| 52       | 462              | 408  | 340  | 243  | 100  | 0    |      |
| 35       | 505              | 455  | 390  | 310  | 150  | 70   | 0    |

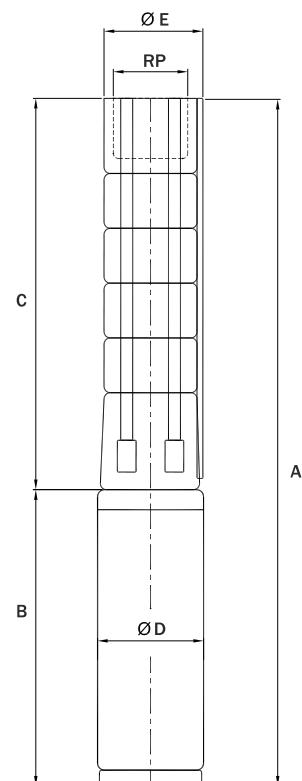
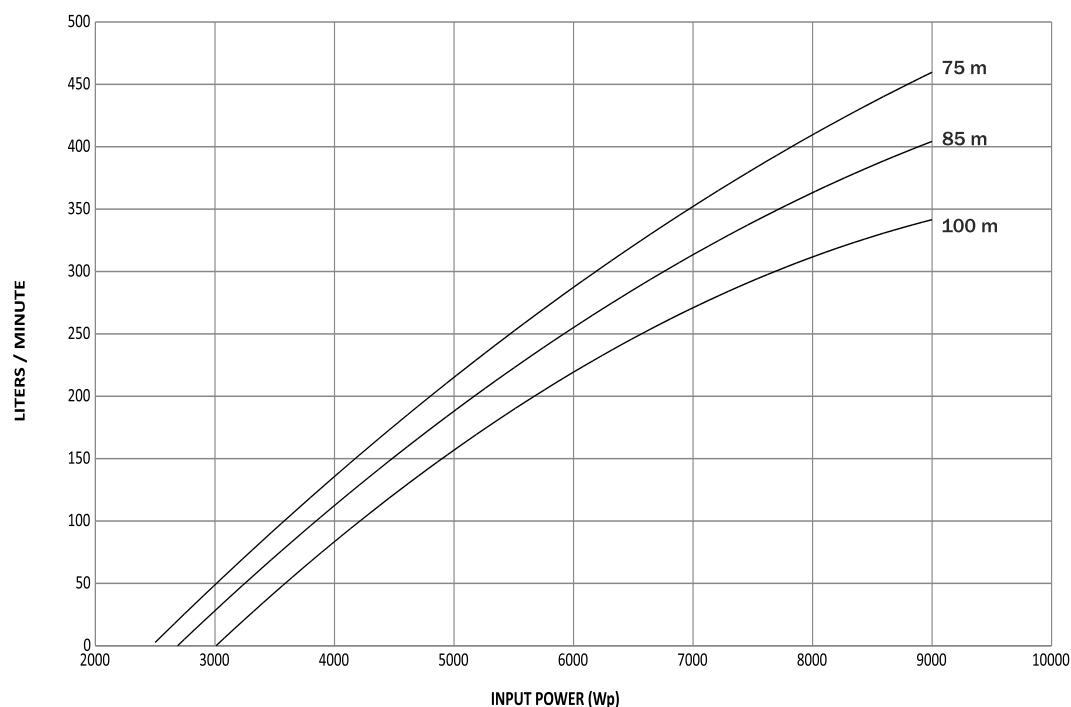


CONTROLLER CODE : 9600000022

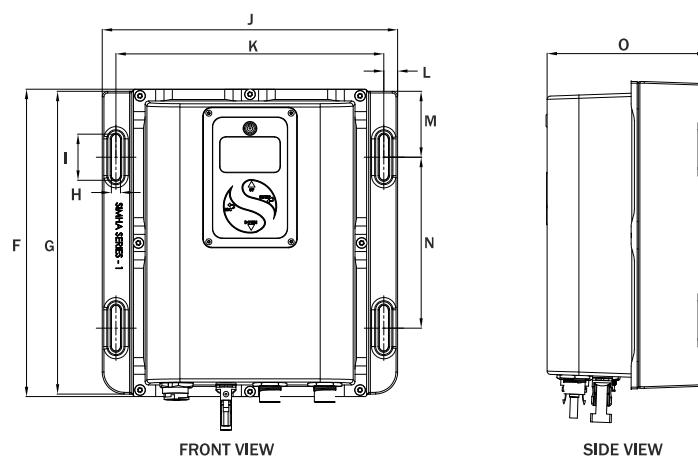
## SOLAR PUMPING SYSTEM

### SOLAR 19 DCSSP 9000

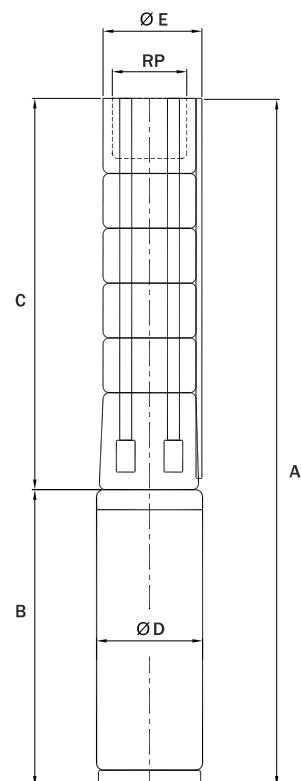
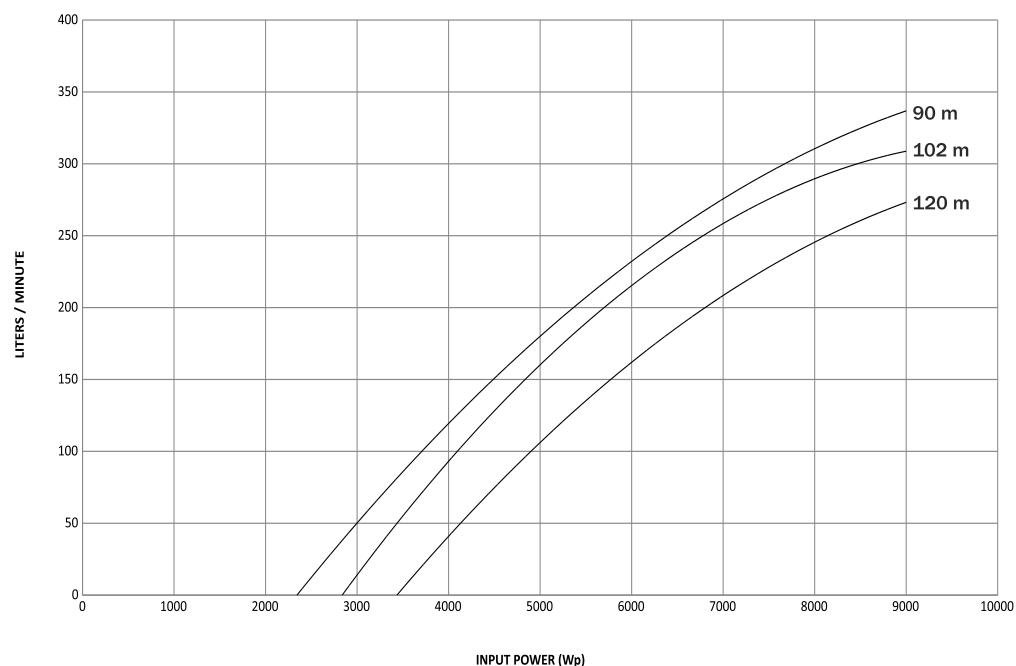
**BSP** 65 mm (6X6)  
**PUMPSET CODE** 9500001550  
**DISCHARGE (LPD)** 121500  
**DISCHARGE (LPW)** 13.5  
**DUTY HEAD** 100 METER  
**CHOKE CODE** 9600000025



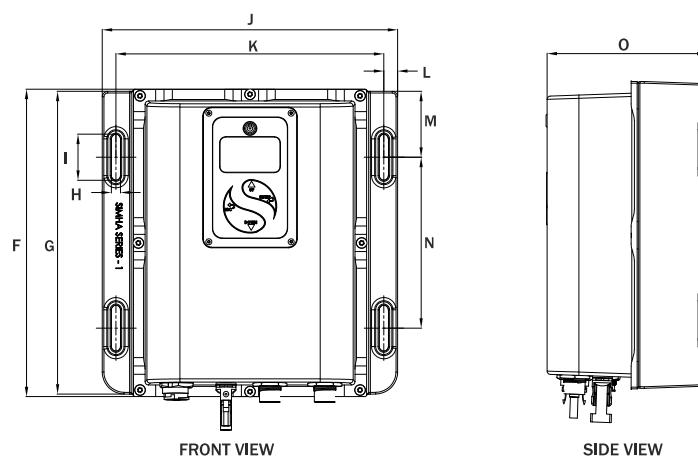
|          | INPUT POWER (W <sub>p</sub> ) |      |      |      |      |      |      |
|----------|-------------------------------|------|------|------|------|------|------|
|          | 9000                          | 7150 | 5850 | 4300 | 3050 | 2700 | 2500 |
| HEAD (m) | FLOW IN LPM                   |      |      |      |      |      |      |
| 100      | 343                           | 275  | 208  | 114  | 0    |      |      |
| 85       | 404                           | 324  | 245  | 134  | 35   | 0    |      |
| 75       | 457                           | 367  | 277  | 152  | 58   | 24   | 0    |



CONTROLLER CODE : 9600000022

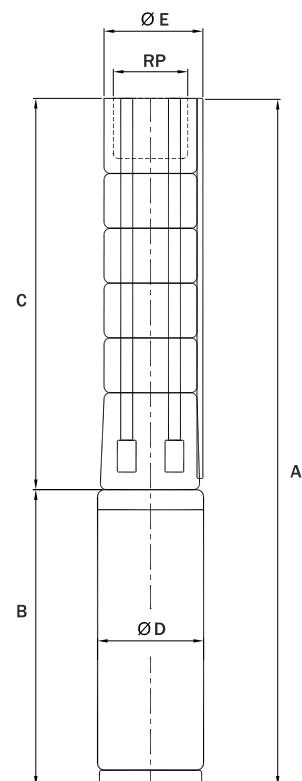
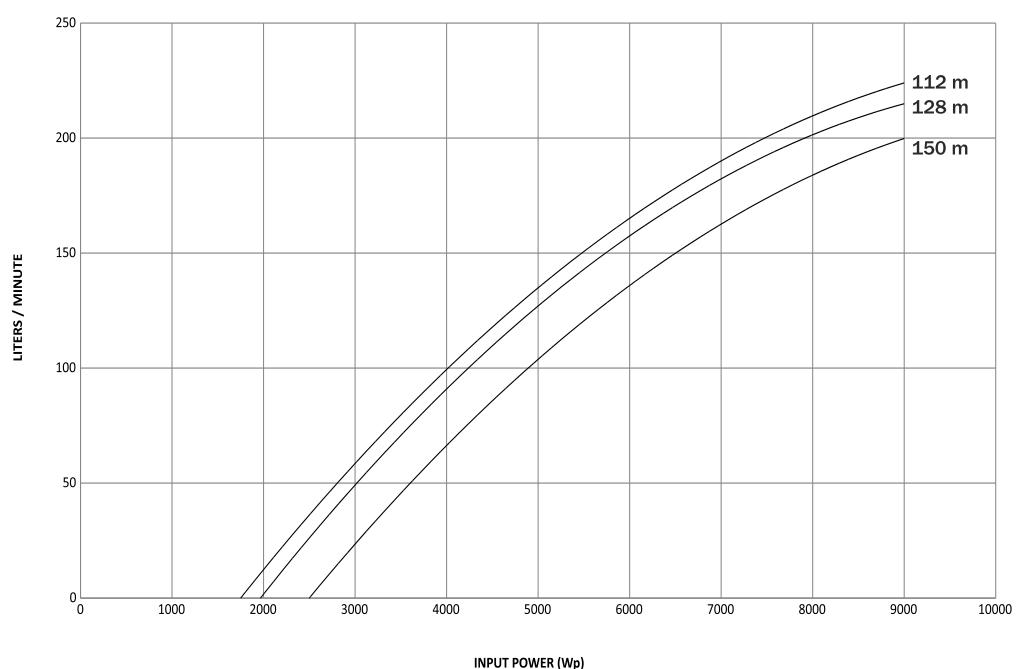
**SOLAR PUMPING SYSTEM**
**SOLAR 16 DCSSP 9000**
**BSP 50 mm (6X6)**
**PUMPSET CODE 9500000772**
**DISCHARGE (LPD) 94500**
**DISCHARGE (LPW) 10.5**
**DUTY HEAD 120 METER**
**CHOKE CODE 9600000025**


|          | INPUT POWER (Wp) |      |      |      |      |      |      |
|----------|------------------|------|------|------|------|------|------|
|          | 9000             | 7200 | 6300 | 4500 | 3500 | 2850 | 2450 |
| HEAD (m) | FLOW IN LPM      |      |      |      |      |      |      |
| 120      | 275              | 213  | 175  | 83   | 0    |      |      |
| 102      | 310              | 270  | 215  | 145  | 48   | 0    |      |
| 90       | 340              | 285  | 230  | 165  | 88   | 42   | 0    |

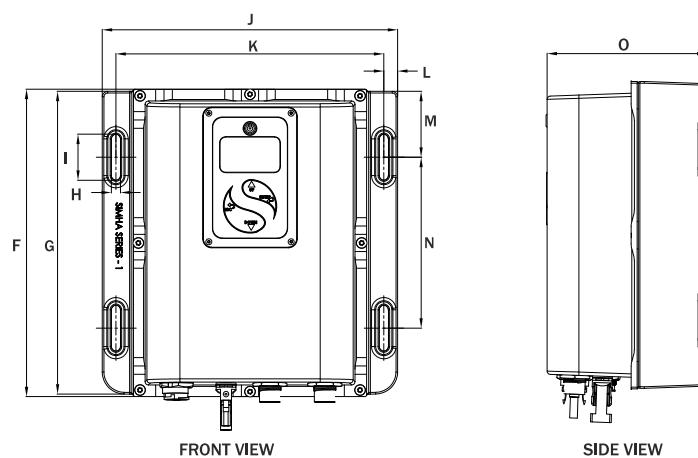

**CONTROLLER CODE : 9600000022**

**SOLAR PUMPING SYSTEM**

**SOLAR 12 DCSSP 9000**  
**BSP 50 mm (6X4)**  
**PUMPSET CODE** 9500000605  
**DISCHARGE (LPD)** 81000  
**DISCHARGE (LPW)** 9  
**DUTY HEAD** 150 METER  
**CHOKE CODE** 9600000025



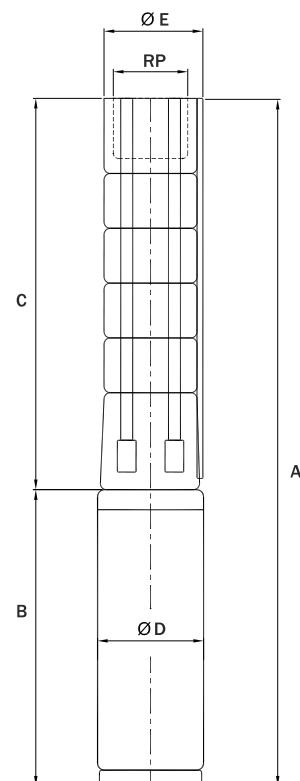
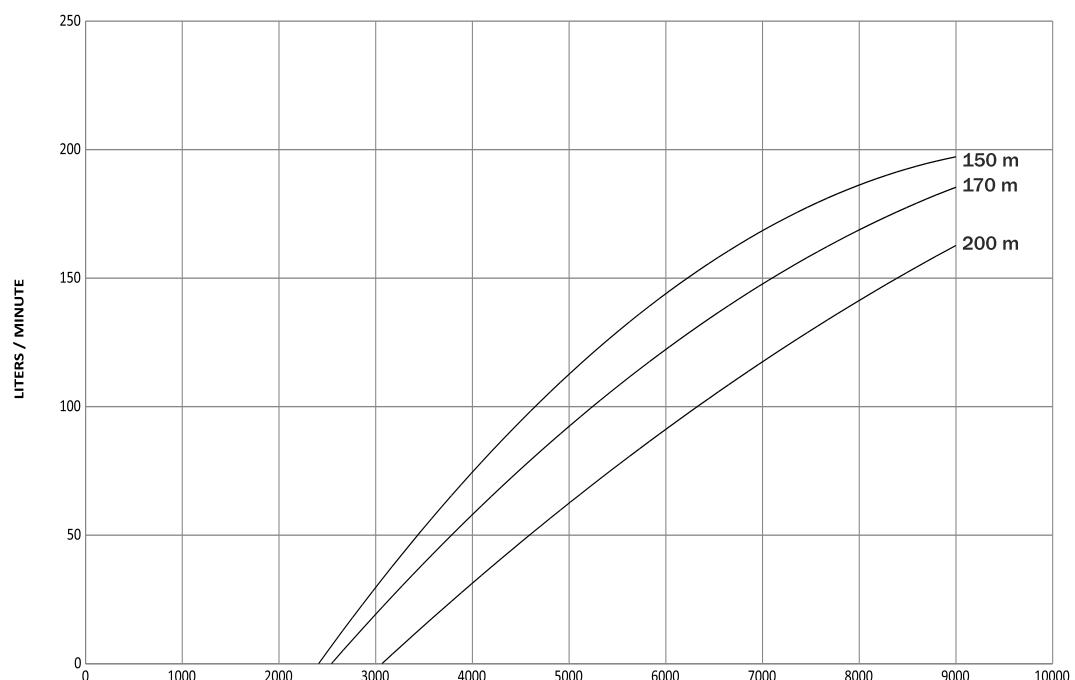
|          | INPUT POWER (Wp) |      |      |      |      |      |      |
|----------|------------------|------|------|------|------|------|------|
|          | 9000             | 7450 | 6350 | 5500 | 2500 | 2000 | 1850 |
| HEAD (m) | FLOW IN LPM      |      |      |      |      |      |      |
| 150      | 200              | 172  | 147  | 120  | 0    |      |      |
| 128      | 215              | 193  | 163  | 145  | 28   | 0    |      |
| 112      | 223              | 202  | 176  | 146  | 40   | 15   | 0    |



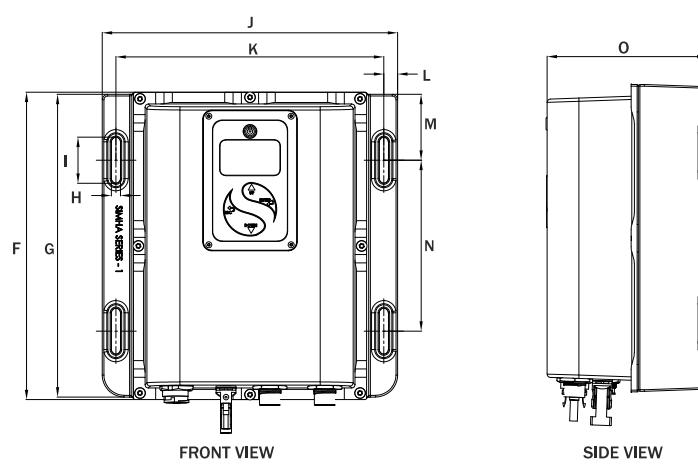
CONTROLLER CODE : 9600000022

**SOLAR PUMPING SYSTEM**

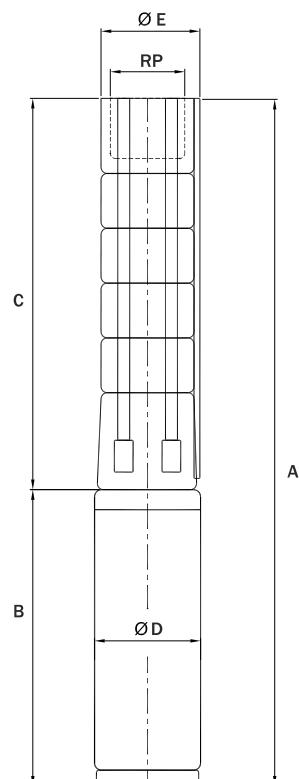
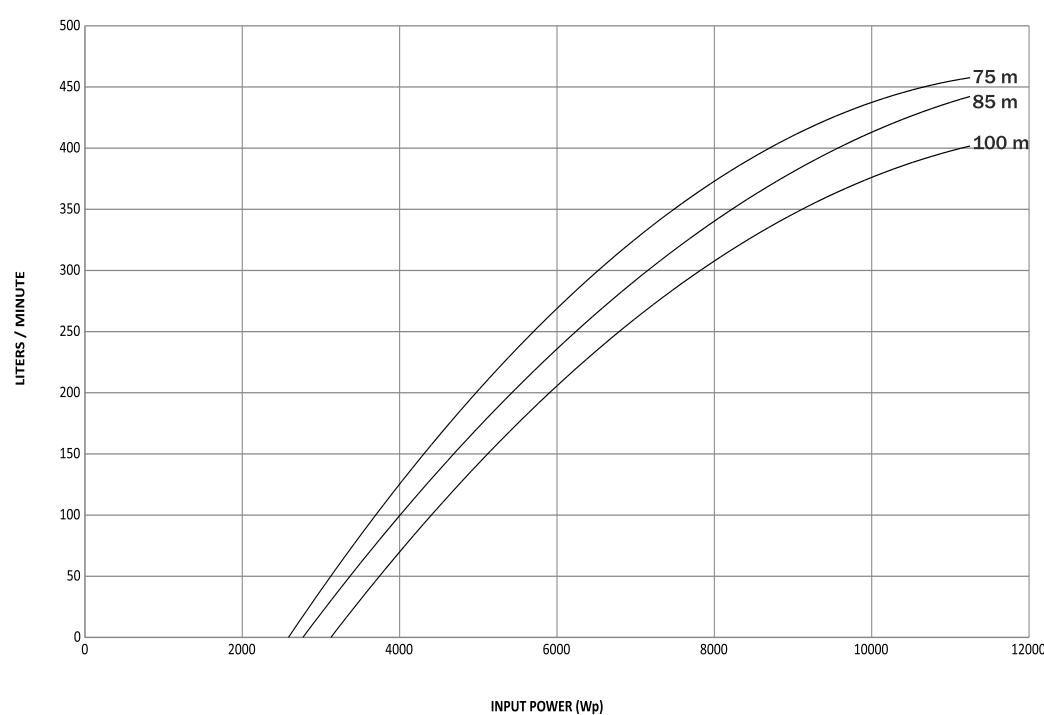
**SOLAR 9 DCSSP 9000**  
**BSP 50 mm (6X4)**  
**PUMPSET CODE** 9500001598  
**DISCHARGE (LPD)** 58500  
**DISCHARGE (LPW)** 6.5  
**DUTY HEAD** 200 METER  
**CHOKE CODE** 9600000025



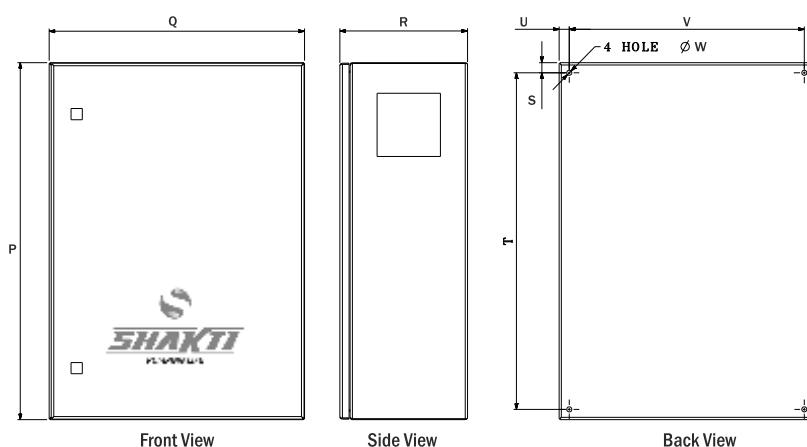
|          | INPUT POWER (W <sub>p</sub> ) |      |      |      |      |      |      |
|----------|-------------------------------|------|------|------|------|------|------|
|          | 9000                          | 7200 | 5350 | 3600 | 3150 | 2700 | 2600 |
| HEAD (m) | FLOW IN LPM                   |      |      |      |      |      |      |
| 200      | 163                           | 122  | 72   | 22   | 0    |      |      |
| 170      | 186                           | 152  | 100  | 47   | 31   | 0    |      |
| 150      | 199                           | 169  | 124  | 61   | 40   | 20   | 0    |

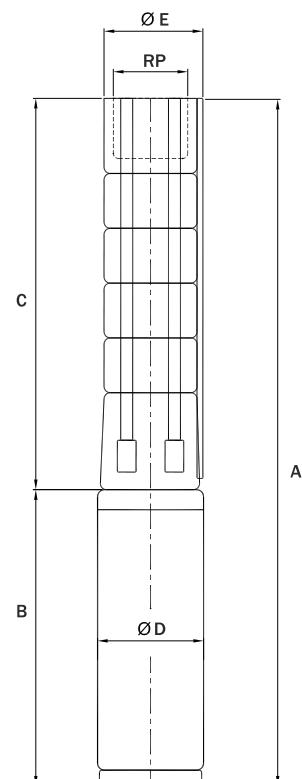
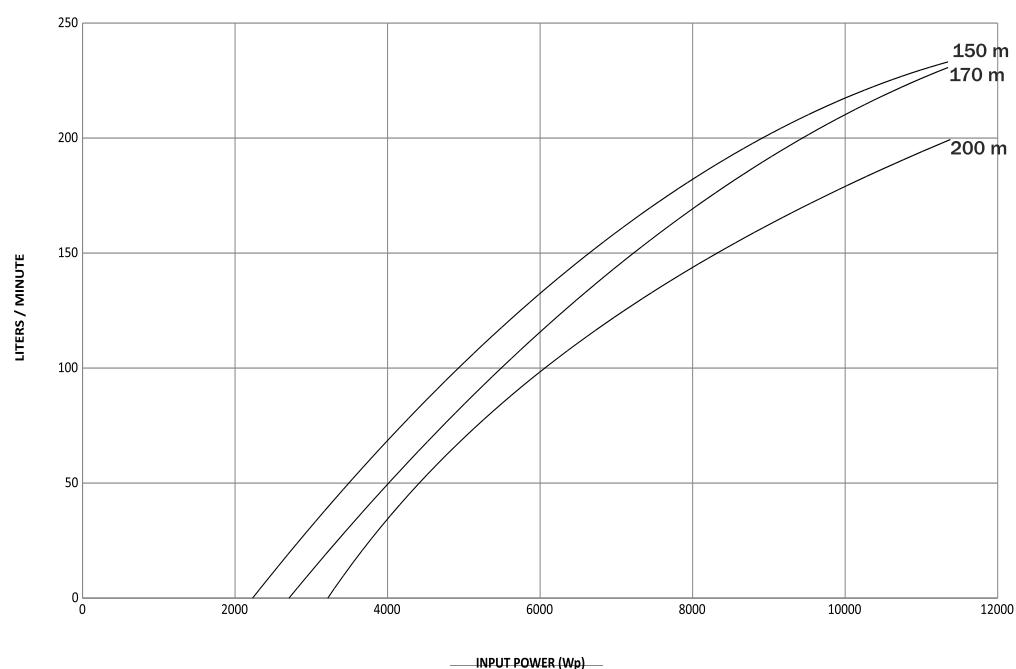


CONTROLLER CODE : 9600000022

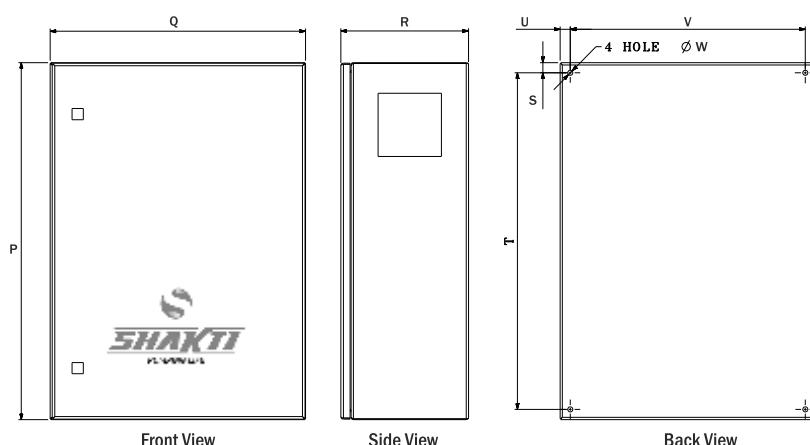
**SOLAR PUMPING SYSTEM**
**SOLAR 23 DCSSP 11250**
**BSP 65 mm (6X6)**
**PUMPSET CODE 9500001731**
**DISCHARGE (LPD) 157500**
**DISCHARGE (LPW) 14**
**DUTY HEAD 100 METER**
**CHOKE CODE 9000023926**


|          | INPUT POWER (Wp) |      |      |      |      |      |      |
|----------|------------------|------|------|------|------|------|------|
|          | 11250            | 8950 | 6750 | 4500 | 3200 | 3000 | 2800 |
| HEAD (m) | FLOW IN LPM      |      |      |      |      |      |      |
| 100      | 405              | 337  | 249  | 116  | 0    |      |      |
| 85       | 444              | 378  | 270  | 150  | 50   | 0    |      |
| 75       | 462              | 402  | 305  | 180  | 75   | 35   | 0    |



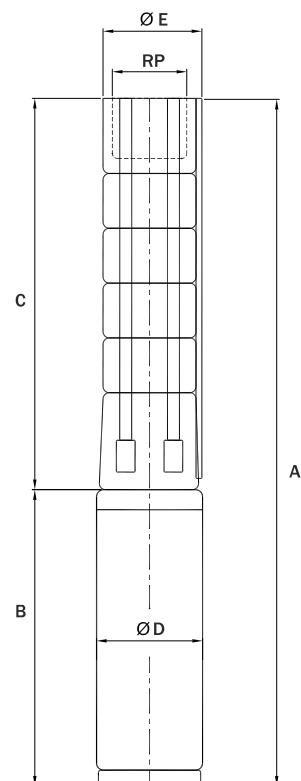
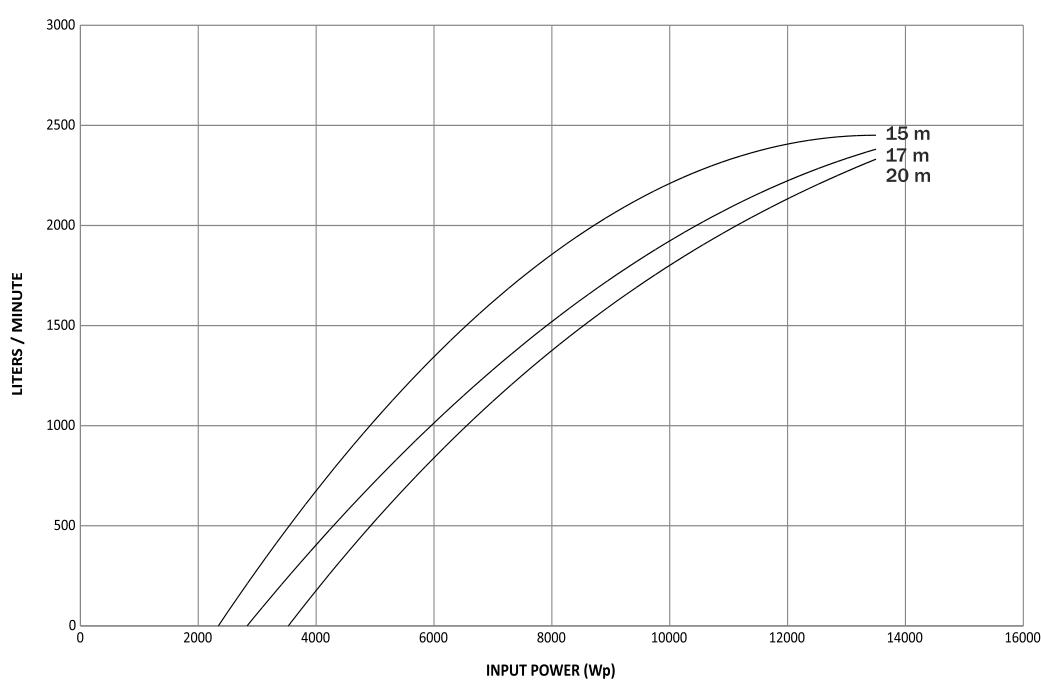
**SOLAR PUMPING SYSTEM**
**SOLAR 12 DCSSP 11250**
**BSP 50 mm (6X4)**
**PUMPSET CODE 9500001733**
**DISCHARGE (LPD) 78750**
**DISCHARGE (LPW) 7**
**DUTY HEAD 200 METER**
**CHOKE CODE 9000023926**


|          | INPUT POWER (Wp) |      |      |      |      |      |      |
|----------|------------------|------|------|------|------|------|------|
|          | 11250            | 9950 | 8100 | 4750 | 3300 | 2650 | 2250 |
| HEAD (m) | FLOW IN LPM      |      |      |      |      |      |      |
| 200      | 200              | 176  | 142  | 69   | 0    |      |      |
| 170      | 230              | 209  | 170  | 80   | 18   | 0    |      |
| 150      | 232              | 217  | 184  | 95   | 40   | 20   | 0    |

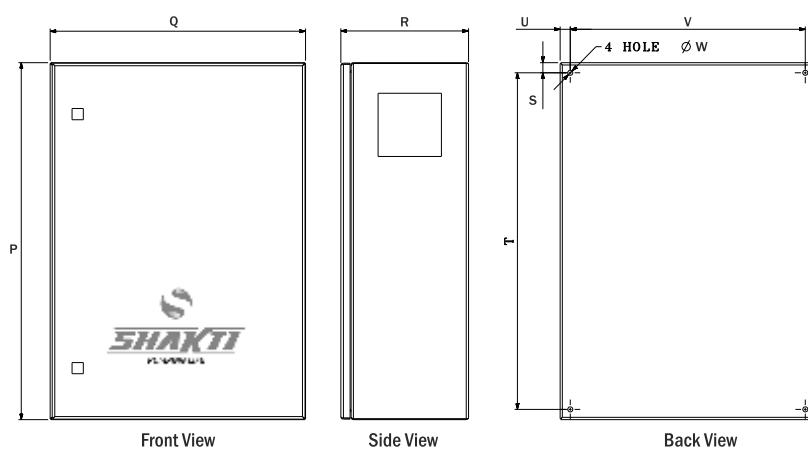


**SOLAR PUMPING SYSTEM**

**SOLAR 139 DCSSP 13500**  
**BSP 100 mm (6X8)**  
**PUMPSET CODE** 9500000886  
**DISCHARGE (LPD)** 918000  
**DISCHARGE (LPW)** 68  
**DUTY HEAD** 20 METER

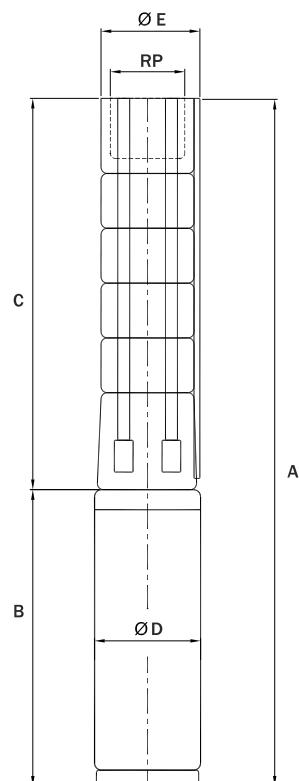
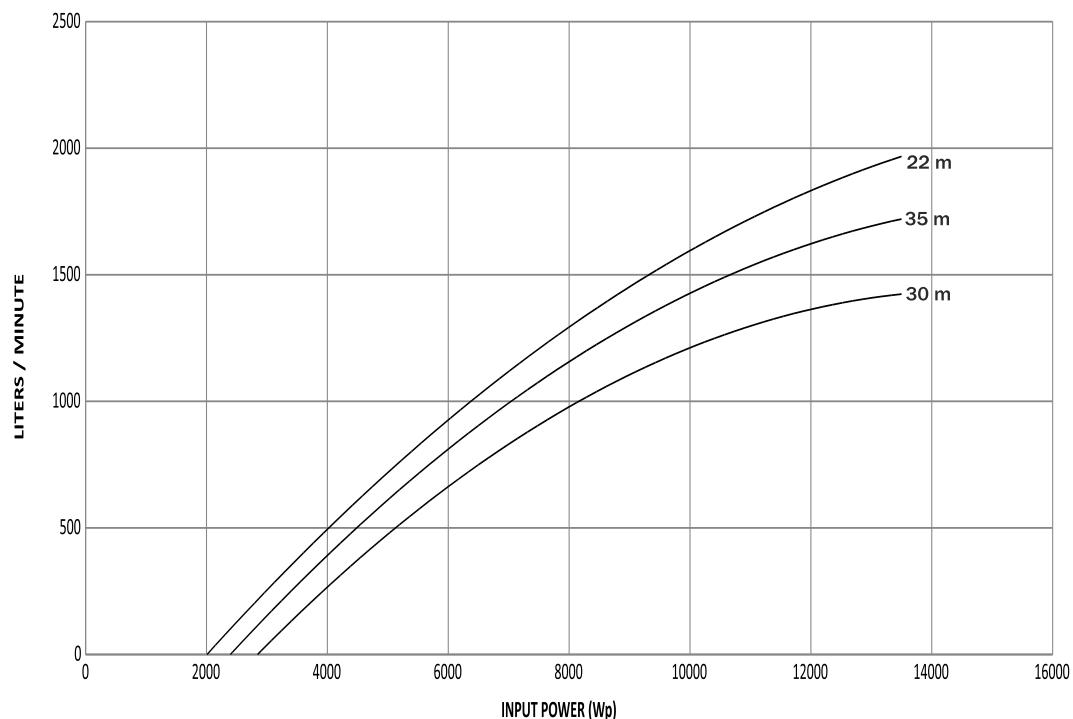


|          | INPUT POWER (Wp) |      |      |      |      |      |      |
|----------|------------------|------|------|------|------|------|------|
|          | 13500            | 9450 | 6750 | 4050 | 3600 | 3000 | 2200 |
| HEAD (m) | FLOW IN LPM      |      |      |      |      |      |      |
| 20       | 2330             | 1700 | 1040 | 230  | 0    |      |      |
| 17       | 2390             | 1800 | 1200 | 530  | 250  | 0    |      |
| 15       | 2450             | 2105 | 1630 | 600  | 550  | 230  | 0    |

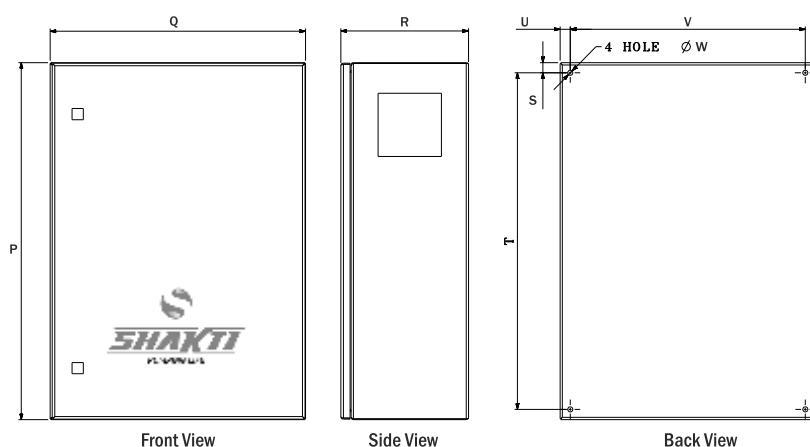


**SOLAR PUMPING SYSTEM**

**SOLAR 86 DCSSP 13500**  
**BSP 100 mm (6X6)**  
**PUMPSET CODE** 9500000880  
**DISCHARGE (LPD)** 614250  
**DISCHARGE (LPW)** 45.5  
**DUTY HEAD** 30 METER

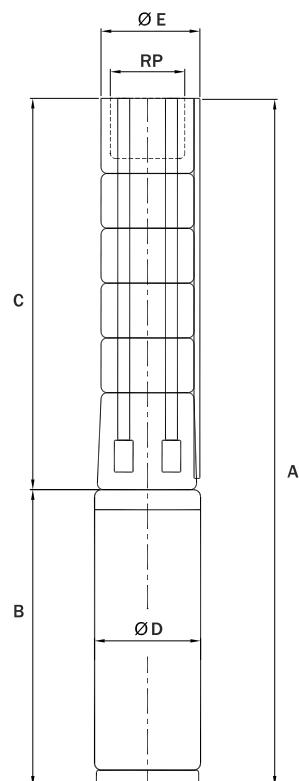
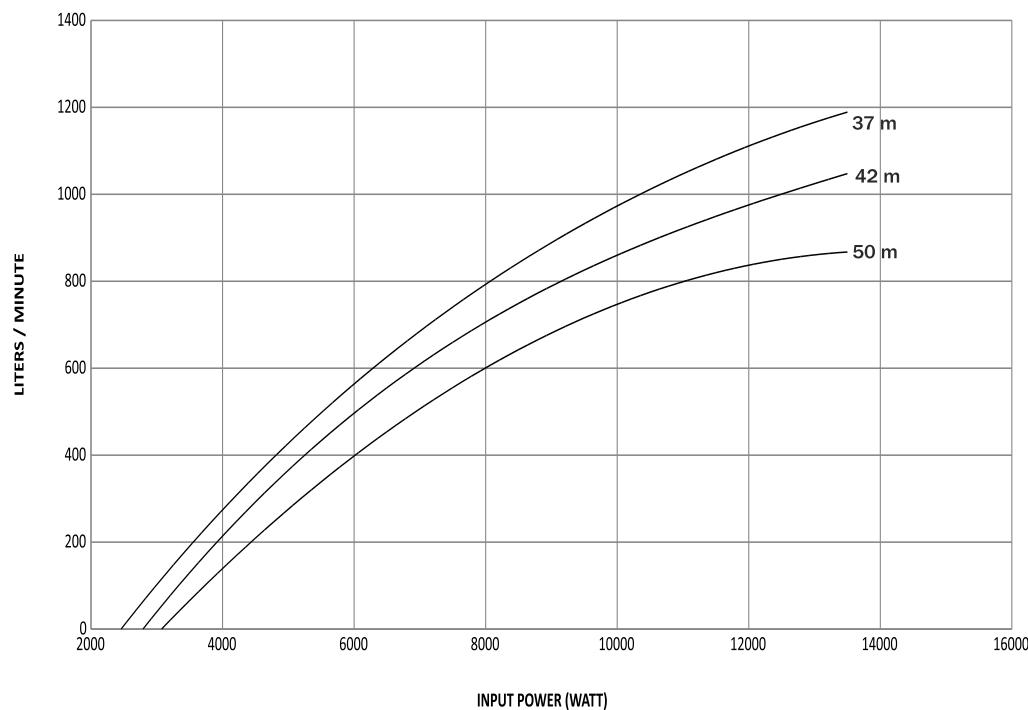


|          | INPUT POWER (Wp) |       |      |      |      |      |      |
|----------|------------------|-------|------|------|------|------|------|
|          | 13500            | 10350 | 6850 | 4400 | 2950 | 2500 | 2000 |
| HEAD (m) | FLOW IN LPM      |       |      |      |      |      |      |
| 30       | 1435             | 1217  | 814  | 385  | 0    |      |      |
| 25       | 1722             | 1460  | 977  | 462  | 180  | 0    |      |
| 22       | 1957             | 1660  | 1110 | 525  | 250  | 150  | 0    |

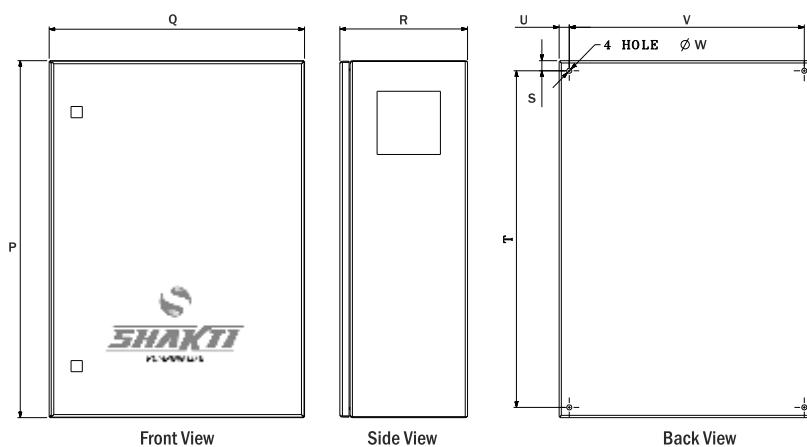


**SOLAR PUMPING SYSTEM**

**SOLAR 54 DCSSP 13500**  
**BSP 75 mm (6X6)**  
**PUMPSET CODE** 9500000874  
**DISCHARGE (LPD)** 384750  
**DISCHARGE (LPW)** 28.5  
**DUTY HEAD** 50 METER

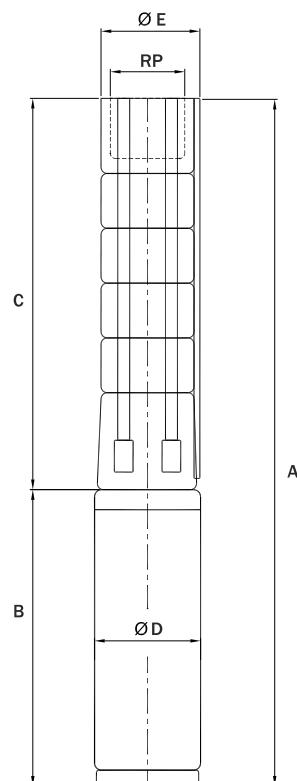
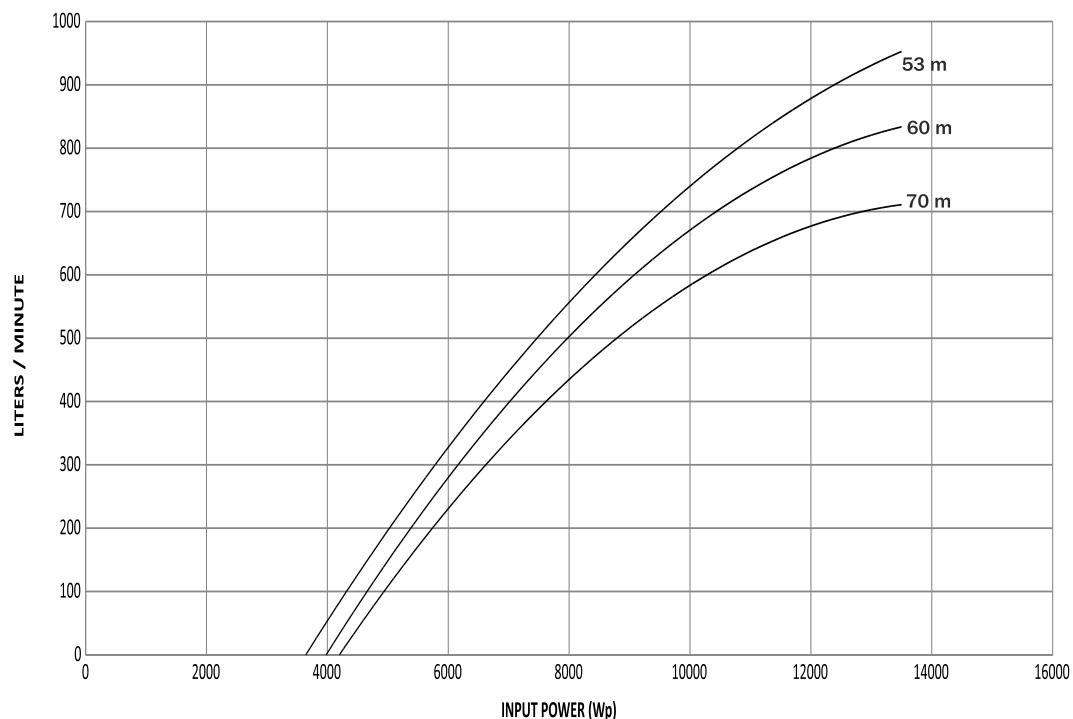


|          | INPUT POWER (WATT) |       |      |      |      |      |      |
|----------|--------------------|-------|------|------|------|------|------|
|          | 13500              | 10850 | 6600 | 4000 | 3300 | 2800 | 2600 |
| HEAD (m) | FLOW IN LPM        |       |      |      |      |      |      |
| 50       | 880                | 766   | 477  | 175  | 0    |      |      |
| 42       | 1048               | 912   | 568  | 208  | 100  | 0    |      |
| 37       | 1189               | 1035  | 645  | 236  | 200  | 80   | 0    |

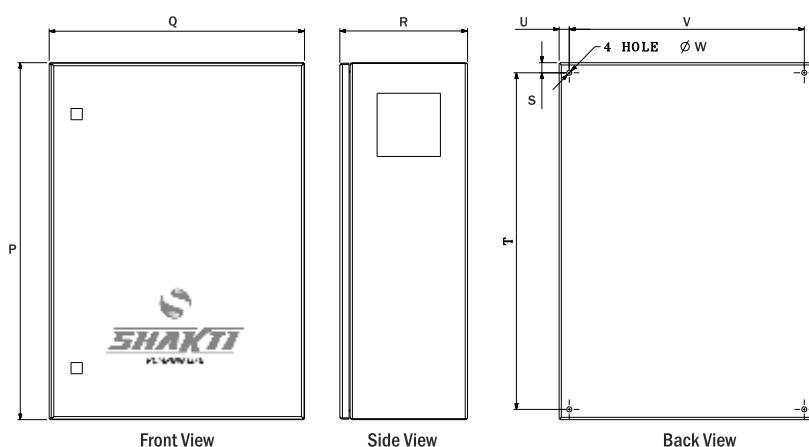


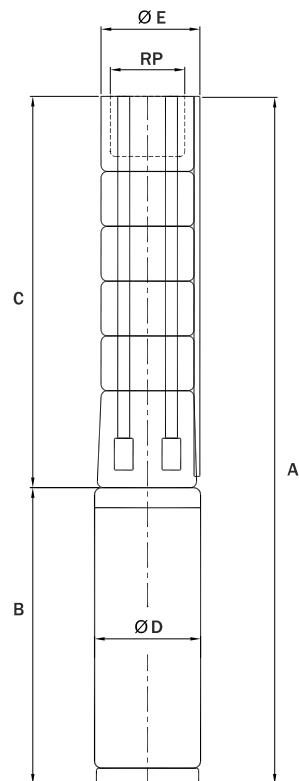
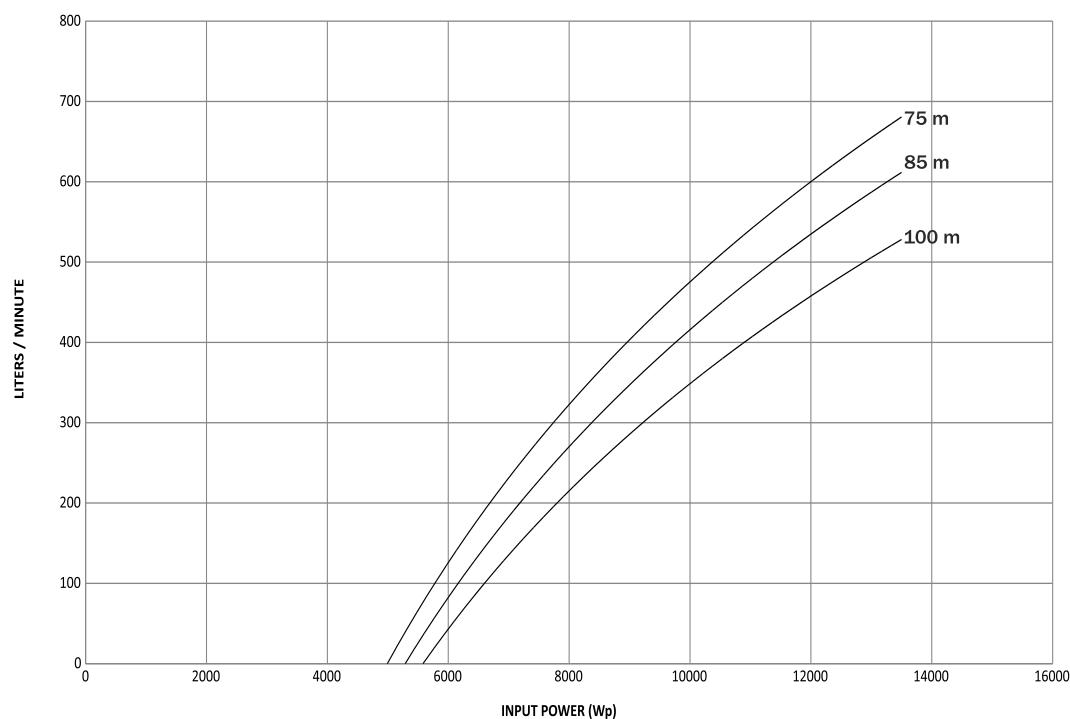
**SOLAR PUMPING SYSTEM**

**SOLAR 43 DCSSP 13500**  
**BSP 75 mm (6X6)**  
**PUMPSET CODE** 9500000866  
**DISCHARGE (LPD)** 276750  
**DISCHARGE (LPW)** 20.5  
**DUTY HEAD** 70 METER

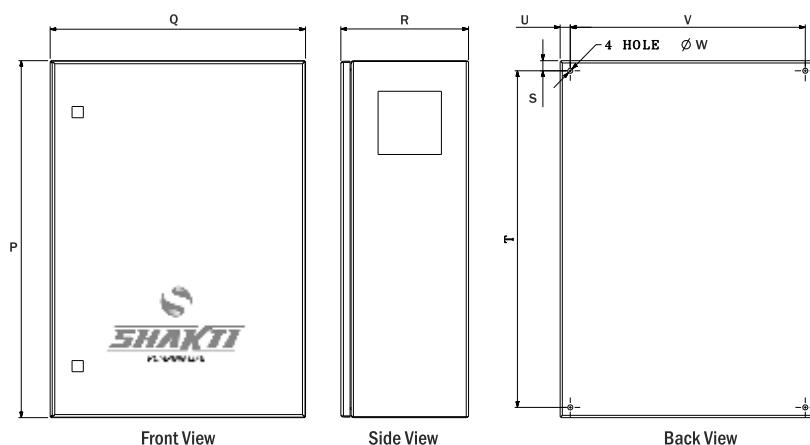


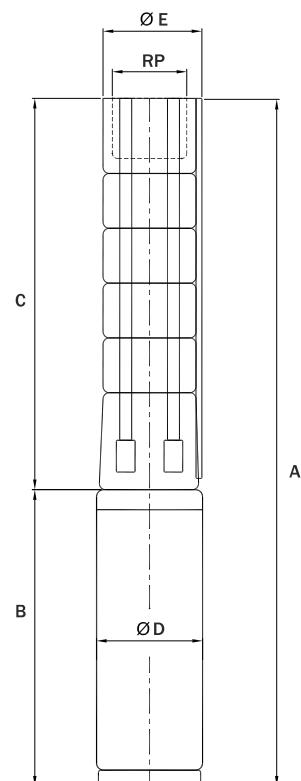
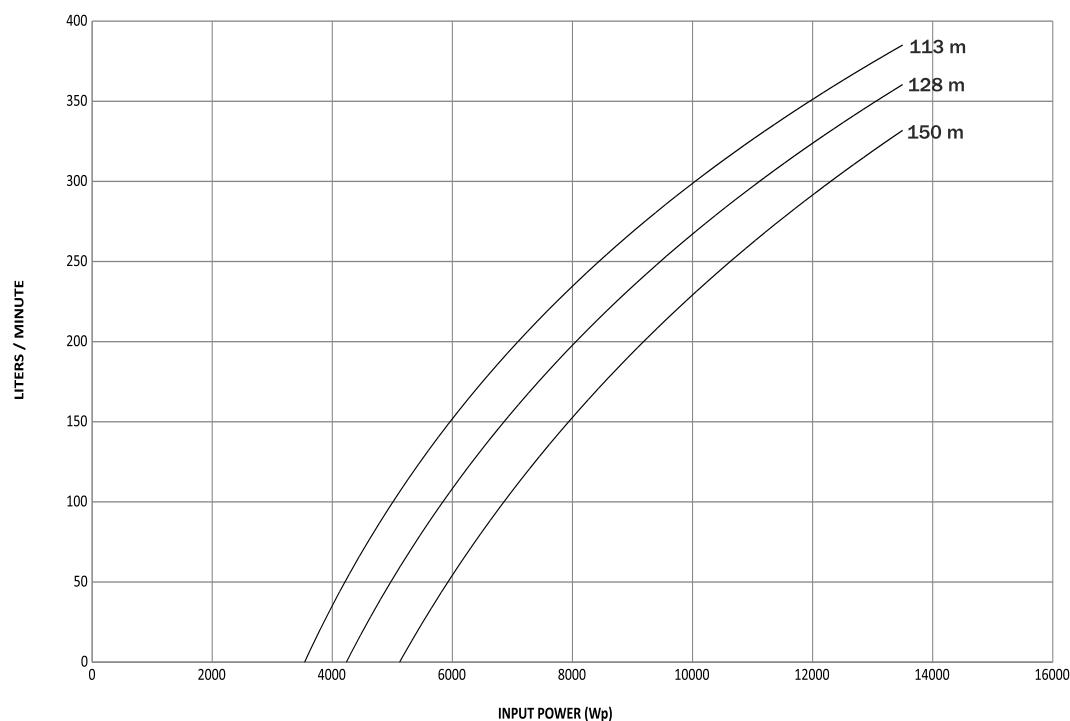
|          | INPUT POWER (Wp) |       |      |      |      |      |      |
|----------|------------------|-------|------|------|------|------|------|
|          | 13500            | 11000 | 7000 | 5200 | 4400 | 4000 | 3500 |
| HEAD (m) | FLOW IN LPM      |       |      |      |      |      |      |
| 70       | 720              | 618   | 346  | 165  | 0    |      |      |
| 60       | 840              | 721   | 404  | 193  | 50   | 0    |      |
| 53       | 951              | 816   | 457  | 218  | 100  | 40   | 0    |



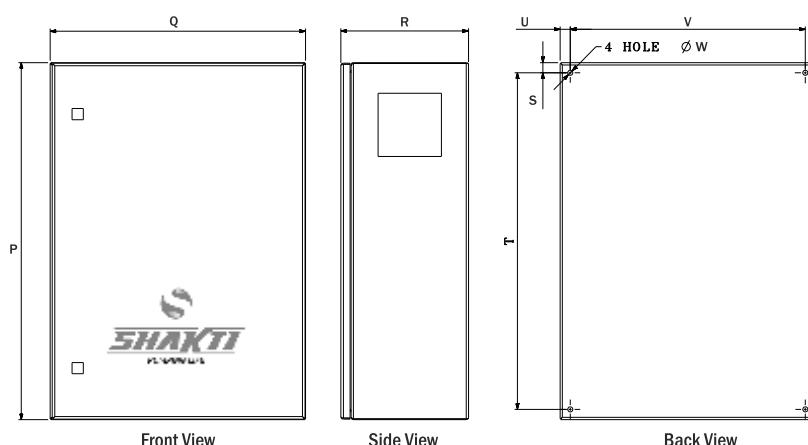
**SOLAR PUMPING SYSTEM**
**SOLAR 30.5 DCSSP 13500**
**BSP 75 mm (6X6)**
**PUMPSET CODE 9500000614**
**DISCHARGE (LPD) 182250**
**DISCHARGE (LPW) 13.5**
**DUTY HEAD 100 METER**
**CHOKE CODE 9000023926**


|          | INPUT POWER (Wp) |       |      |      |      |      |      |
|----------|------------------|-------|------|------|------|------|------|
|          | 13500            | 10650 | 8400 | 6850 | 5950 | 5500 | 5000 |
| HEAD (m) | FLOW IN LPM      |       |      |      |      |      |      |
| 100      | 509              | 393   | 267  | 150  | 0    |      |      |
| 85       | 599              | 462   | 314  | 176  | 90   | 0    |      |
| 75       | 679              | 524   | 356  | 200  | 140  | 60   | 0    |



**SOLAR PUMPING SYSTEM**
**SOLAR 19 DCSSP 13500**
**BSP 50 mm (6X6)**
**PUMPSET CODE 9500001714**
**DISCHARGE (LPD) 114750**
**DISCHARGE (LPW) 8.5**
**DUTY HEAD 150 METER**
**CHOKE CODE 9000023926**


|          | INPUT POWER (Wp) |       |      |      |      |      |      |
|----------|------------------|-------|------|------|------|------|------|
|          | 13500            | 11450 | 9550 | 7500 | 5300 | 4250 | 3650 |
| HEAD (m) | FLOW IN LPM      |       |      |      |      |      |      |
| 150      | 322              | 274   | 223  | 144  | 0    |      |      |
| 128      | 358              | 313   | 250  | 180  | 70   | 0    |      |
| 113      | 375              | 330   | 290  | 235  | 132  | 40   | 0    |


**CONTROLLER CODE : 9000023556**

## SOLAR PUMPING SYSTEM

### SOLAR 14 DCSSP 13500

BSP 50 mm (6X6)

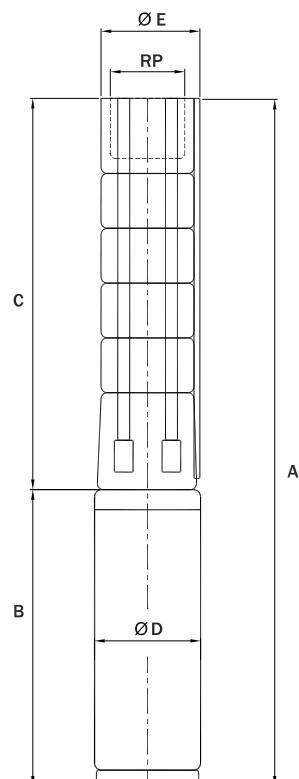
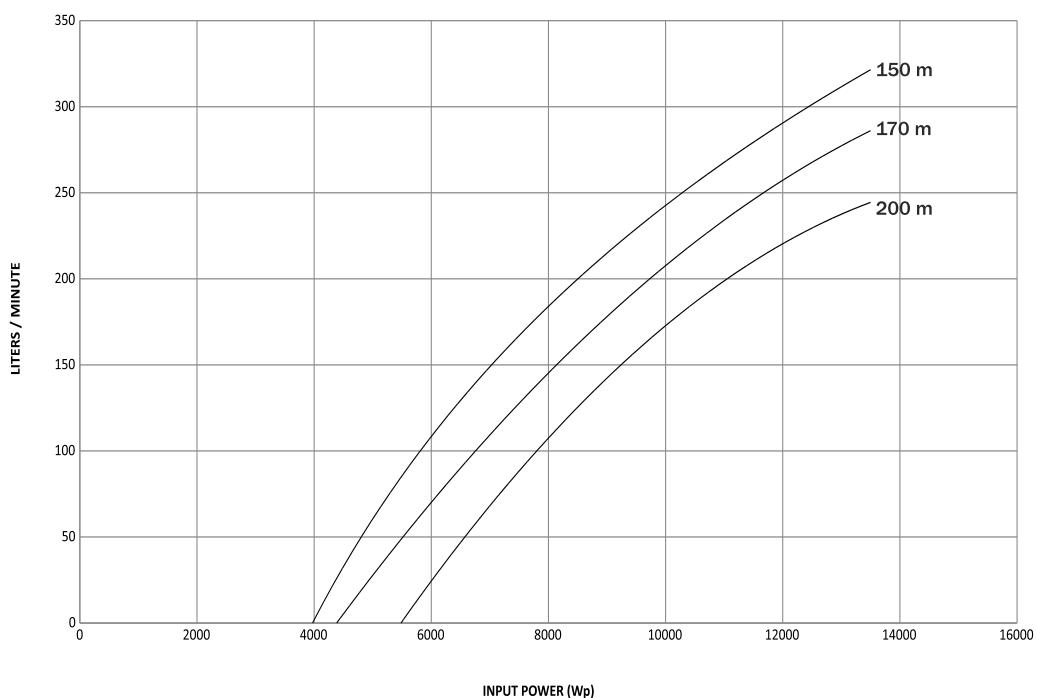
PUMPSET CODE 9500001732

DISCHARGE (LPD) 87750

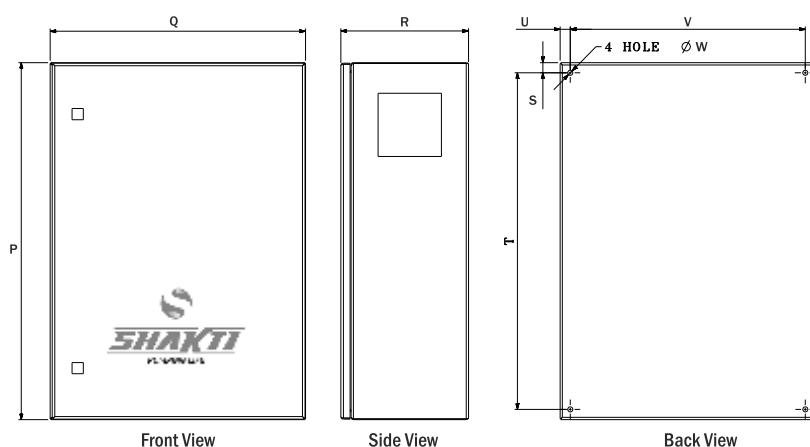
DISCHARGE (LPW) 6.5

DUTY HEAD 200 METER

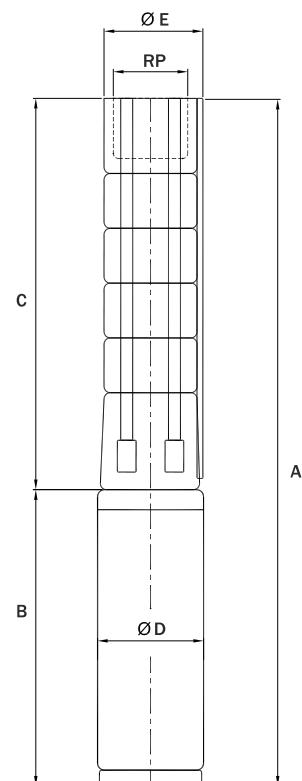
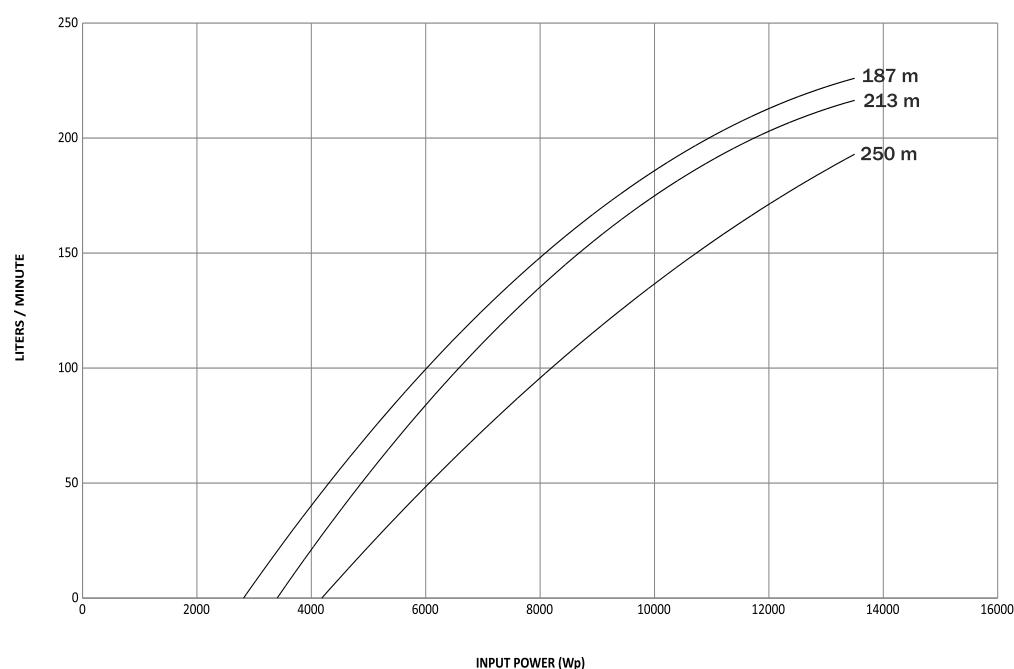
CHOKE CODE 9000023926



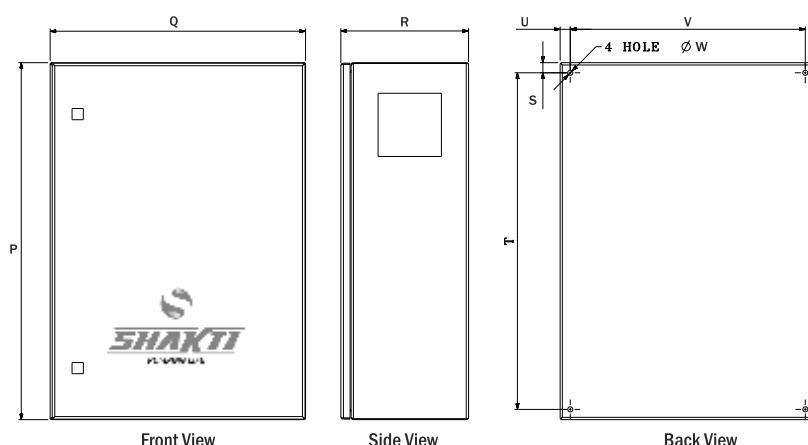
|          | INPUT POWER (Wp) |       |      |      |      |      |      |
|----------|------------------|-------|------|------|------|------|------|
|          | 13500            | 10800 | 8100 | 6050 | 5500 | 4600 | 4000 |
| HEAD (m) | FLOW IN LPM      |       |      |      |      |      |      |
| 200      | 247              | 186   | 120  | 24   | 0    |      |      |
| 170      | 290              | 220   | 150  | 80   | 55   | 0    |      |
| 150      | 320              | 260   | 188  | 120  | 90   | 30   | 0    |



CONTROLLER CODE : 9000023556

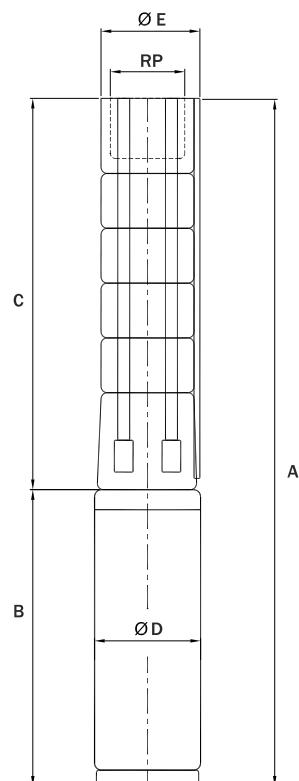
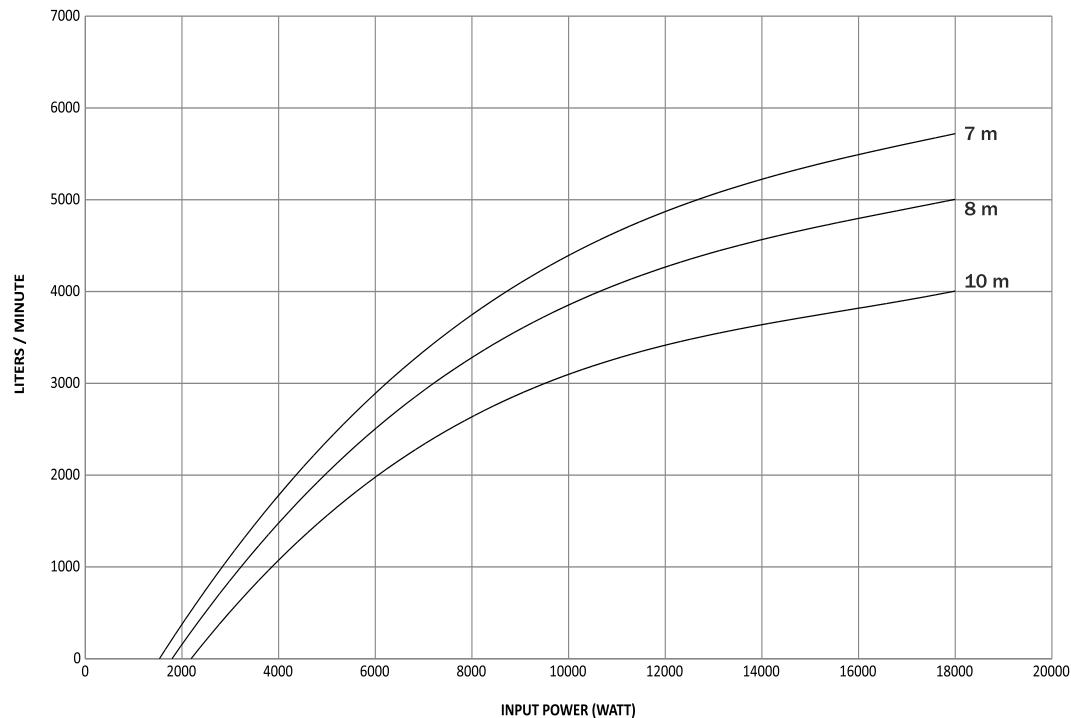
**SOLAR PUMPING SYSTEM**
**SOLAR 11 DCSSP 13500**
**BSP 50 mm (6X4)**
**PUMPSET CODE 9500000835**
**DISCHARGE (LPD) 74250**
**DISCHARGE (LPW) 5.5**
**DUTY HEAD 250 METER**
**CHOKE CODE 9000023926**


|          | INPUT POWER (Wp) |       |      |      |      |      |      |
|----------|------------------|-------|------|------|------|------|------|
|          | 13500            | 10800 | 8100 | 5350 | 4300 | 3450 | 2950 |
| HEAD (m) | FLOW IN LPM      |       |      |      |      |      |      |
| 250      | 193              | 152   | 95   | 37   | 0    |      |      |
| 213      | 217              | 187   | 135  | 70   | 30   | 0    |      |
| 187      | 228              | 194   | 150  | 85   | 50   | 25   | 0    |

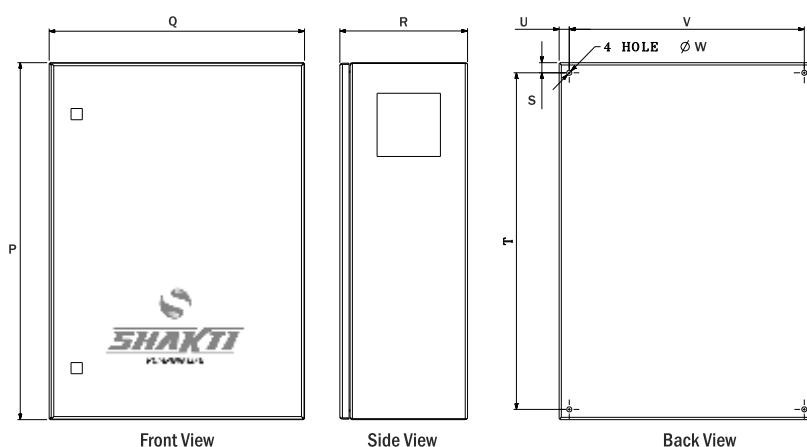


**SOLAR PUMPING SYSTEM**

**SOLAR 240 DCSSP 18000**  
**BSP 150 mm (6X12)**  
**PUMPSET CODE 9500000887**  
**DISCHARGE (LPD) 2250000**  
**DISCHARGE (LPW) 125**  
**DUTY HEAD 10 METER**

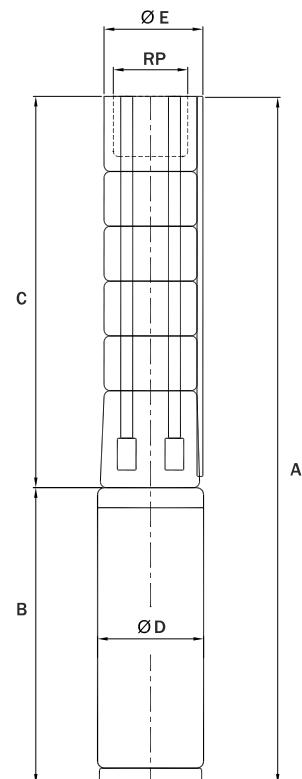
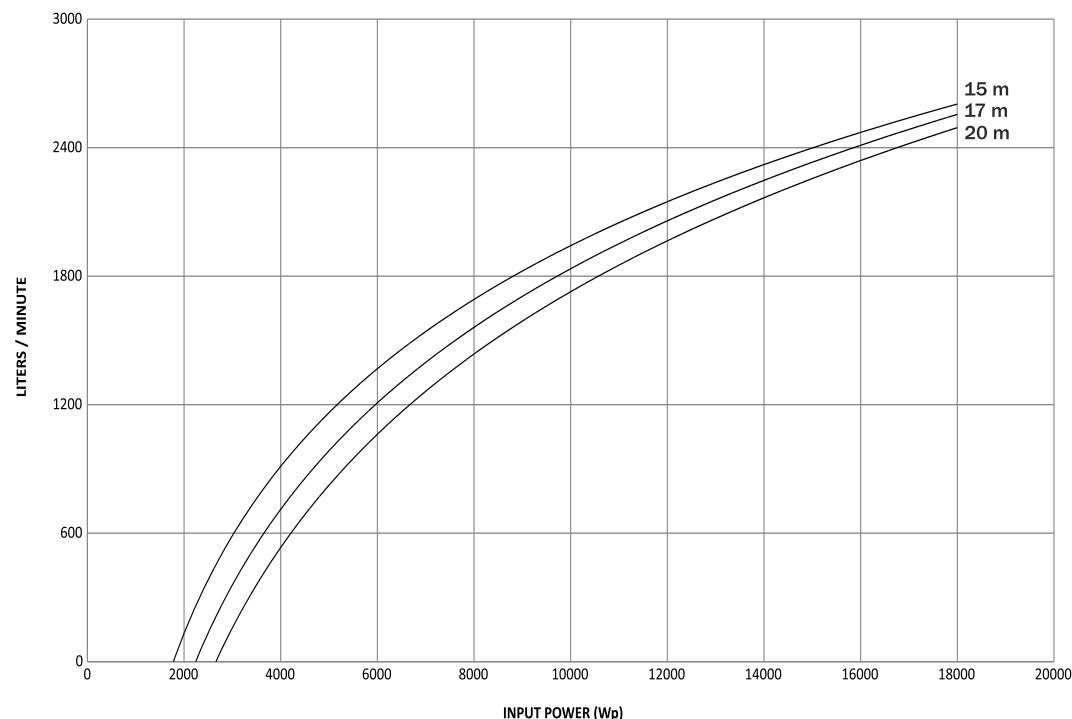


|          | INPUT POWER (WATT) |       |      |      |      |      |      |
|----------|--------------------|-------|------|------|------|------|------|
|          | 18000              | 13150 | 9400 | 6550 | 2200 | 1800 | 1600 |
| HEAD (m) | FLOW IN LPM        |       |      |      |      |      |      |
| 10       | 4000               | 3580  | 2920 | 2220 | 0    |      |      |
| 8        | 5000               | 4475  | 3650 | 2775 | 300  | 0    |      |
| 7        | 5714               | 5114  | 4171 | 3171 | 550  | 250  | 0    |

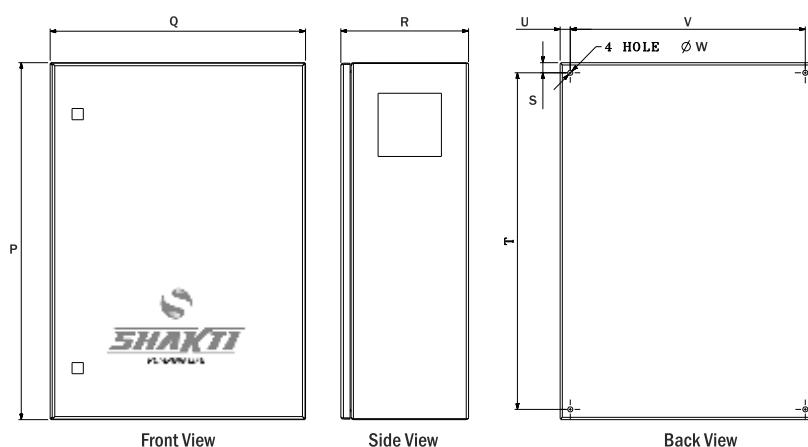


**SOLAR PUMPING SYSTEM**

**SOLAR 148 DCSSP 18000**  
**BSP 100 mm (6X8)**  
**PUMPSET CODE 9500000896**  
**DISCHARGE (LPD) 1224000**  
**DISCHARGE (LPW) 68**  
**DUTY HEAD 20 METER**

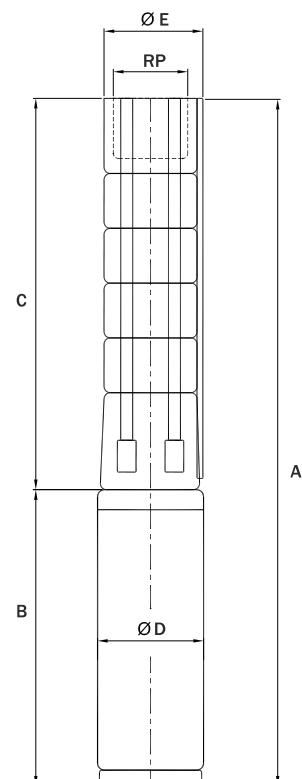
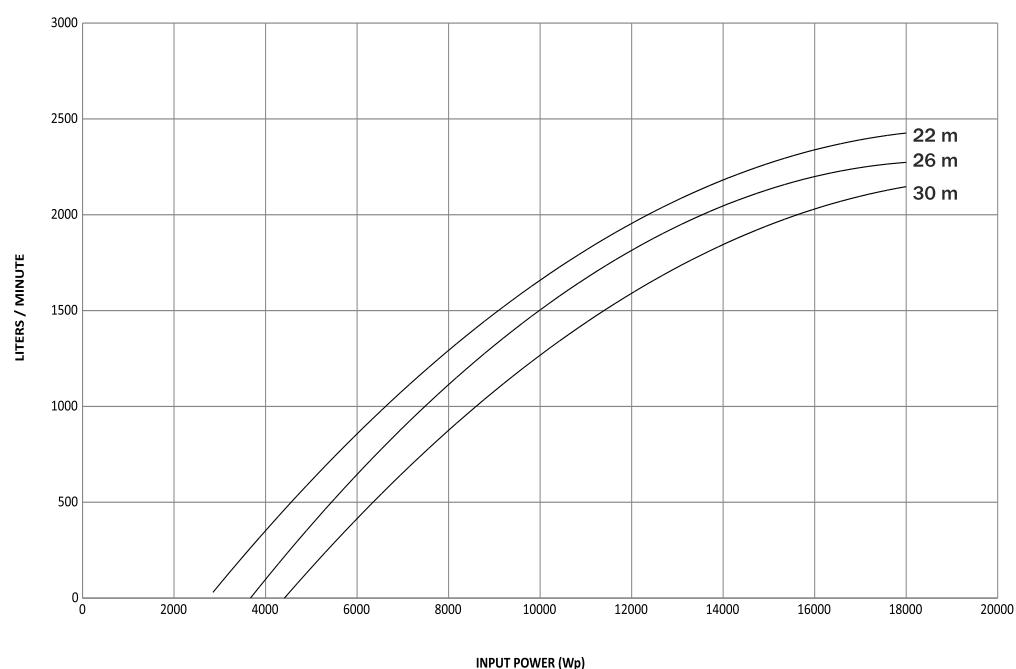


|          | INPUT POWER (Wp) |       |      |      |      |      |      |
|----------|------------------|-------|------|------|------|------|------|
|          | 18000            | 11800 | 6350 | 3750 | 2750 | 2250 | 1900 |
| HEAD (m) | FLOW IN LPM      |       |      |      |      |      |      |
| 20       | 2475             | 1940  | 1170 | 480  | 0    |      |      |
| 17       | 2510             | 2100  | 1300 | 550  | 300  | 0    |      |
| 15       | 2550             | 2182  | 1400 | 900  | 550  | 250  | 0    |

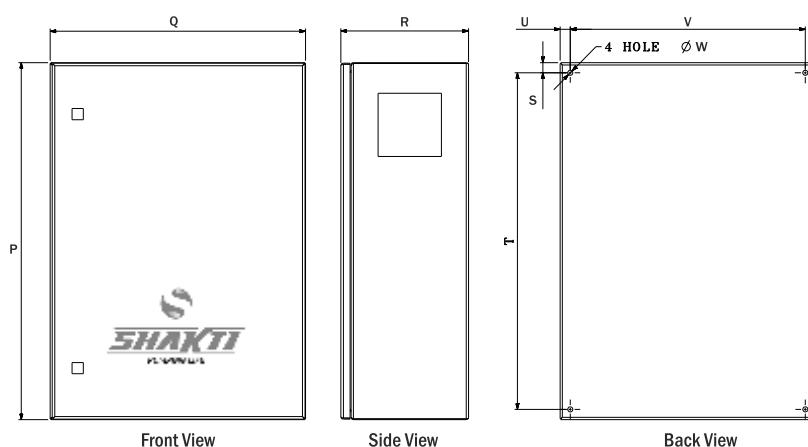


**SOLAR PUMPING SYSTEM**

**SOLAR 129 DCSSP 18000**  
**BSP 100 mm (6X8)**  
**PUMPSET CODE** 9500000661  
**DISCHARGE (LPD)** 891000  
**DISCHARGE (LPW)** 49.5  
**DUTY HEAD** 30 METER

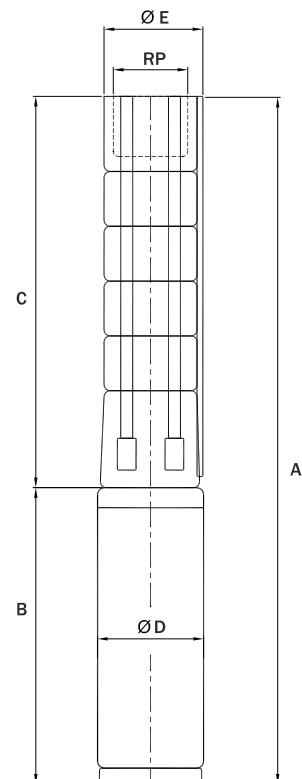
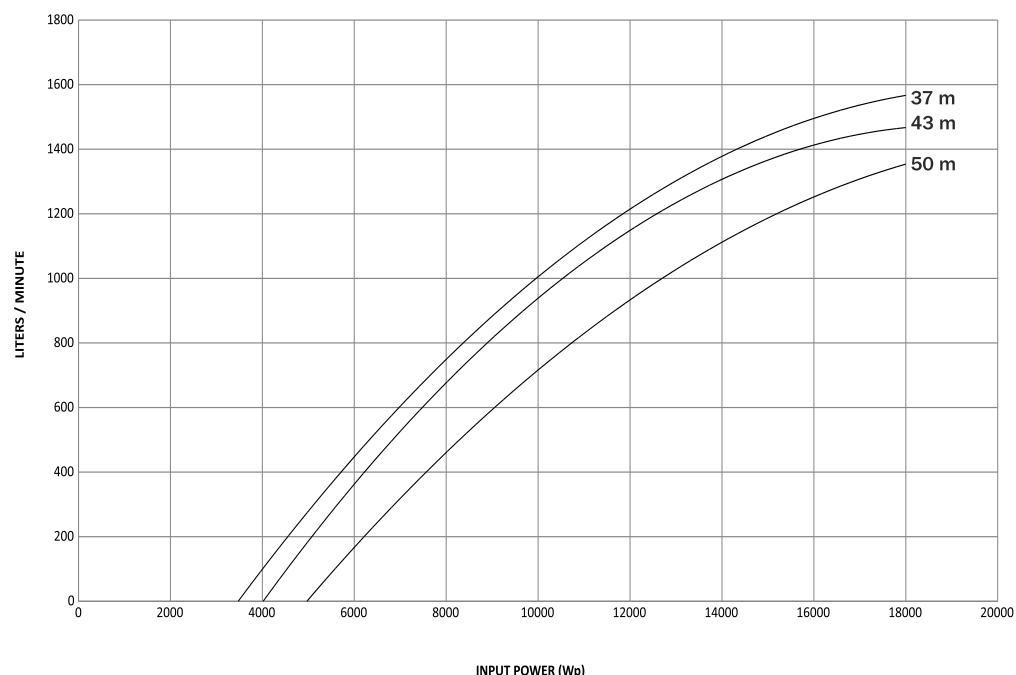


|          | INPUT POWER (Wp) |       |       |      |      |      |      |
|----------|------------------|-------|-------|------|------|------|------|
|          | 18000            | 15650 | 11000 | 6750 | 4500 | 3650 | 2900 |
| HEAD (m) | FLOW IN LPM      |       |       |      |      |      |      |
| 30       | 2160             | 1985  | 1425  | 635  | 0    |      |      |
| 26       | 2320             | 2100  | 1690  | 875  | 200  | 0    |      |
| 22       | 2450             | 2270  | 1860  | 950  | 590  | 250  | 0    |

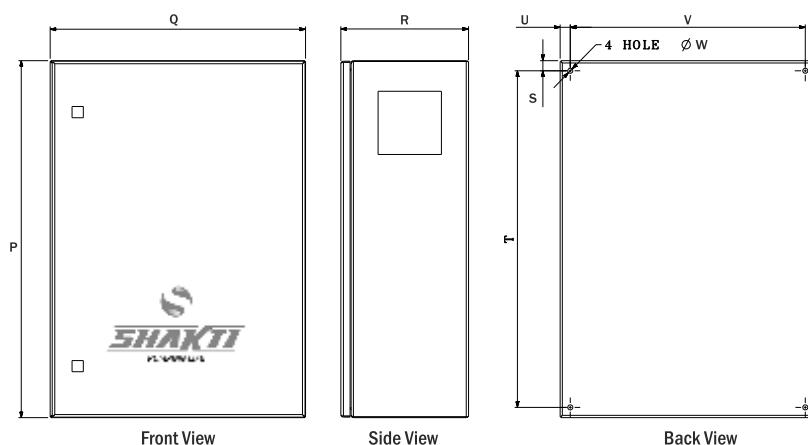


**SOLAR PUMPING SYSTEM**

**SOLAR 81 DCSSP 18000**  
**BSP 100 mm (6X6)**  
**PUMPSET CODE** 9500000623  
**DISCHARGE (LPD)** 504000  
**DISCHARGE (LPW)** 28  
**DUTY HEAD** 50 METER

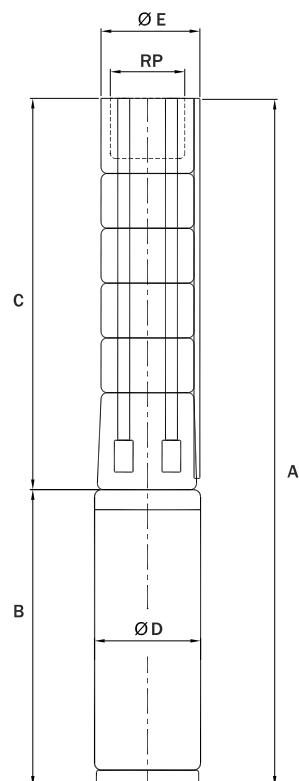
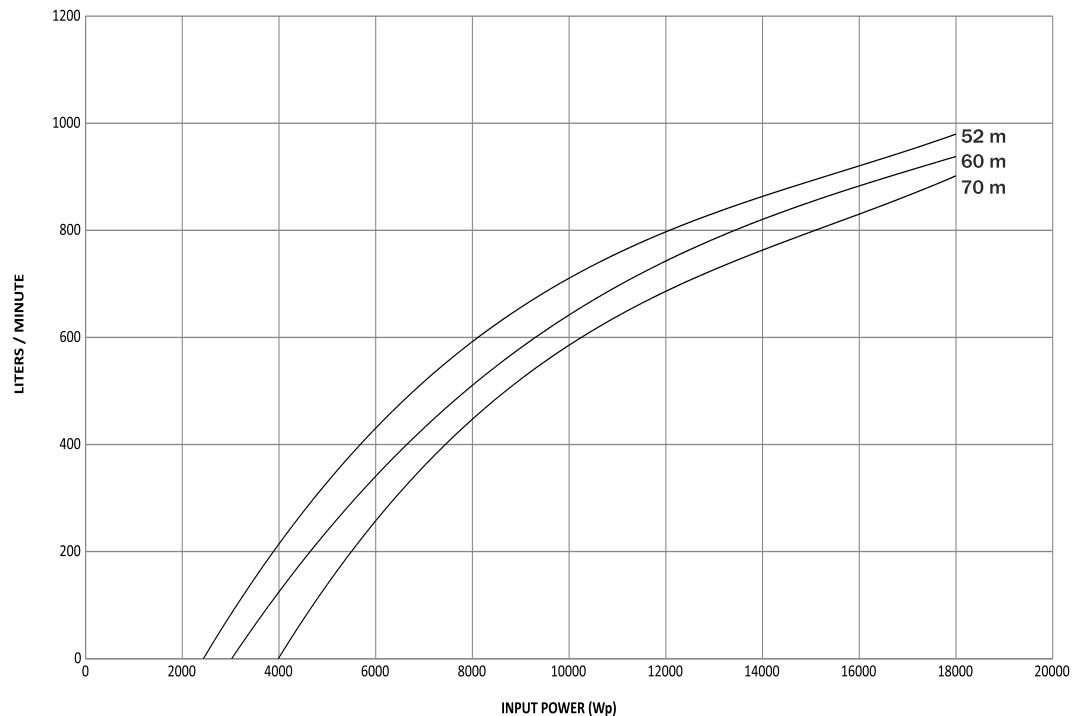


|          | INPUT POWER (Wp) |       |       |      |      |      |      |
|----------|------------------|-------|-------|------|------|------|------|
|          | 18000            | 15450 | 11550 | 7200 | 5050 | 4100 | 3400 |
| HEAD (m) | FLOW IN LPM      |       |       |      |      |      |      |
| 50       | 1360             | 1210  | 880   | 370  | 0    |      |      |
| 43       | 1480             | 1370  | 1100  | 580  | 200  | 0    |      |
| 37       | 1580             | 1450  | 1160  | 665  | 300  | 75   | 0    |

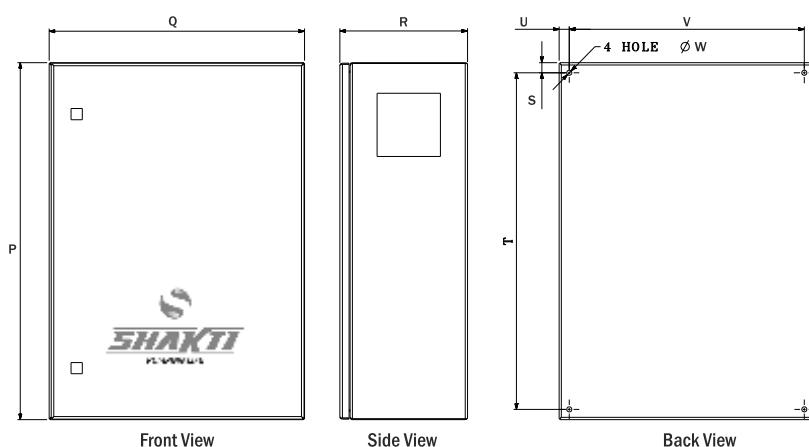


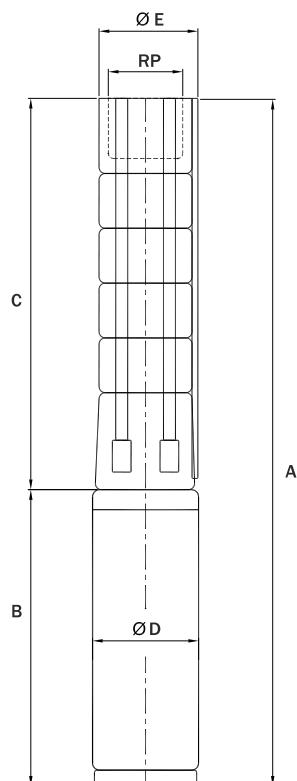
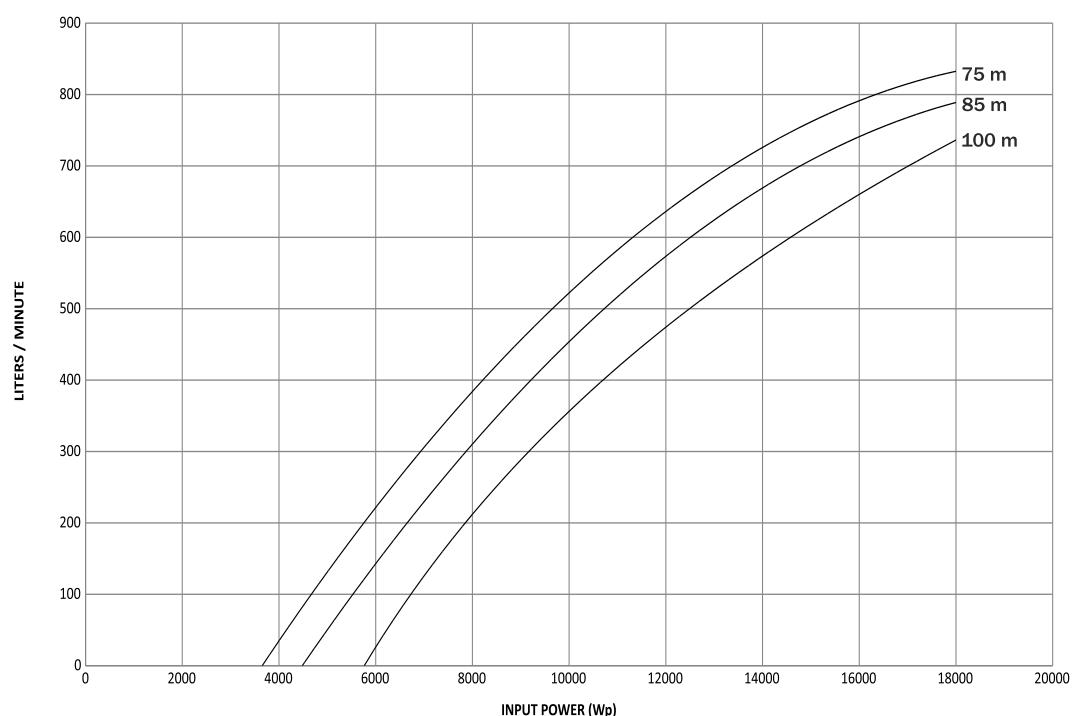
**SOLAR PUMPING SYSTEM**

**SOLAR 53 DCSSP 18000**  
**BSP 75 mm (6X6)**  
**PUMPSET CODE** 9500001726  
**DISCHARGE (LPD)** 378000  
**DISCHARGE (LPW)** 21  
**DUTY HEAD** 70 METER

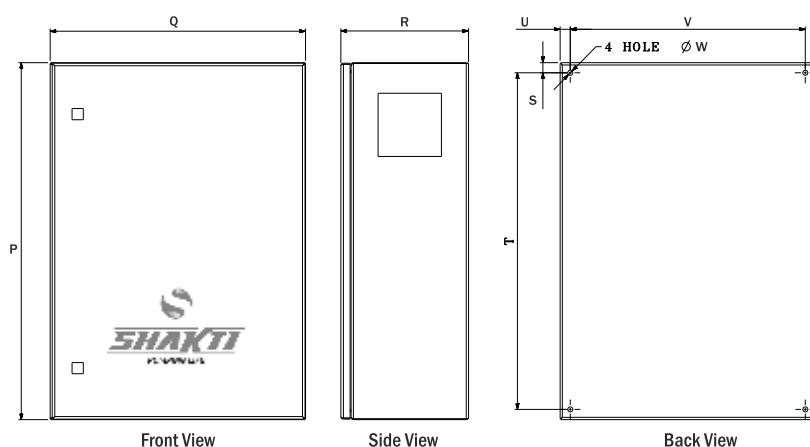


|          | INPUT POWER (Wp) |       |       |      |      |      |      |
|----------|------------------|-------|-------|------|------|------|------|
|          | 18000            | 14600 | 10900 | 7200 | 4000 | 3000 | 2400 |
| HEAD (m) | FLOW IN LPM      |       |       |      |      |      |      |
| 70       | 900              | 790   | 625   | 385  | 0    |      |      |
| 60       | 938              | 840   | 690   | 450  | 120  | 0    |      |
| 52       | 979              | 884   | 745   | 544  | 205  | 80   | 0    |



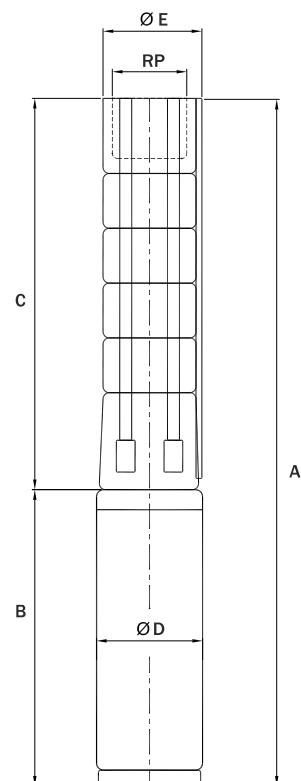
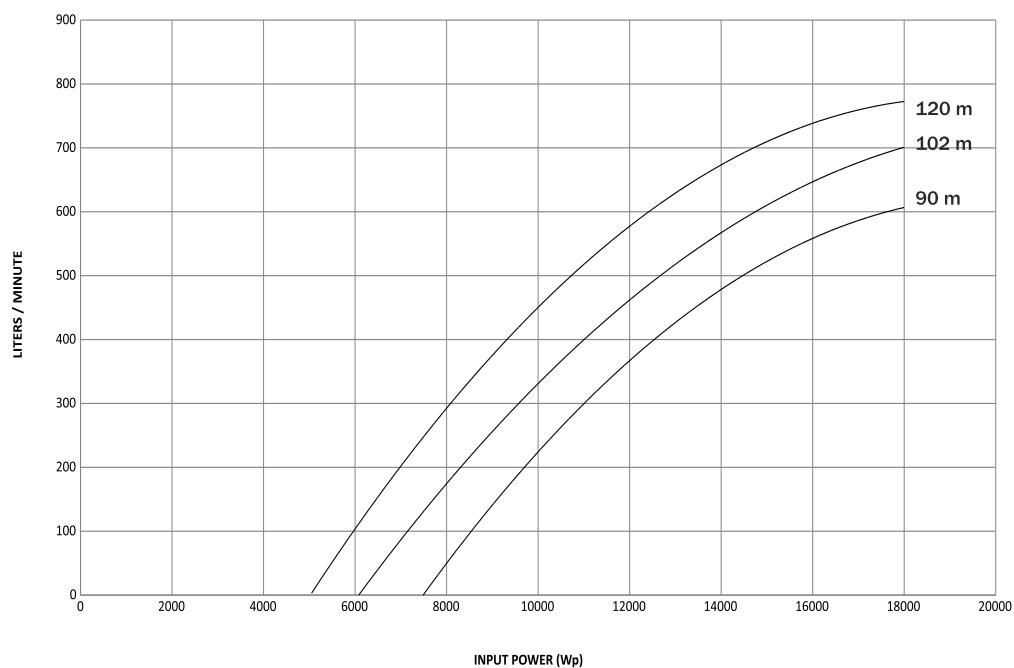
**SOLAR PUMPING SYSTEM**
**SOLAR 43 DCSSP 18000**
**BSP 75 mm (6X6)**
**PUMPSET CODE 9500001727**
**DISCHARGE (LPD) 288000**
**DISCHARGE (LPW) 16**
**DUTY HEAD 100 METER**
**CHOKE CODE 9000023926**


|          | INPUT POWER (Wp) |       |       |      |      |      |      |
|----------|------------------|-------|-------|------|------|------|------|
|          | 18000            | 14400 | 10800 | 9000 | 6000 | 4450 | 3750 |
| HEAD (m) | FLOW IN LPM      |       |       |      |      |      |      |
| 100      | 720              | 588   | 420   | 320  | 0    |      |      |
| 85       | 790              | 680   | 515   | 380  | 138  | 0    |      |
| 75       | 839              | 726   | 580   | 450  | 235  | 80   | 0    |

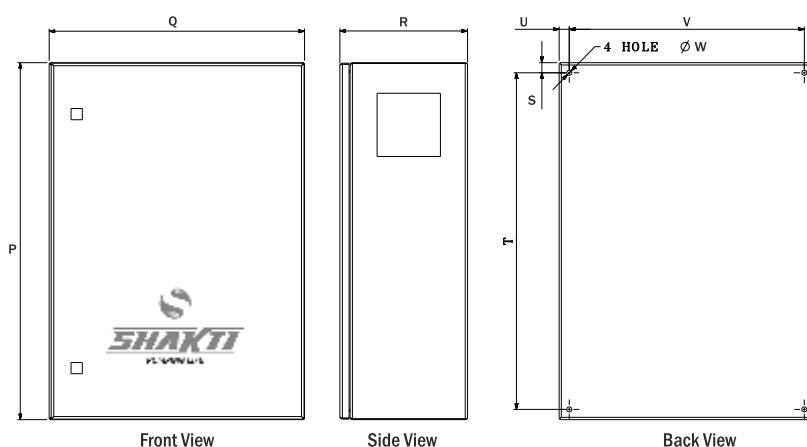

**CONTROLLER CODE : 9000023556**

**SOLAR PUMPING SYSTEM**

**SOLAR 36 DCSSP18000**  
**BSP 75 mm (6X6)**  
**PUMPSET CODE** 9500000607  
**DISCHARGE (LPD)** 207000  
**DISCHARGE (LPW)** 11.5  
**DUTY HEAD** 120 METER  
**CHOKE CODE** 9000023926

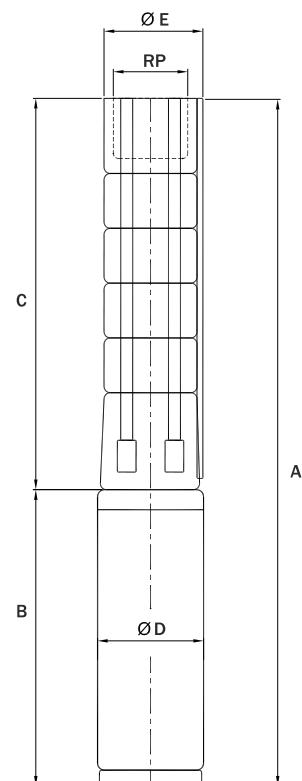
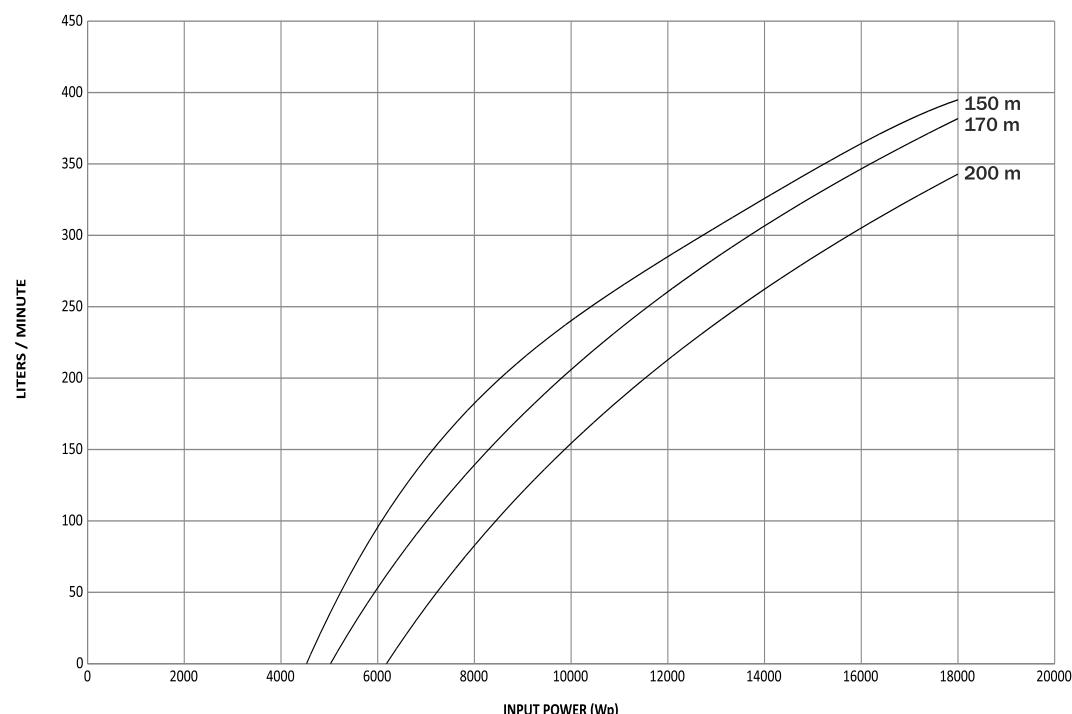


|          | INPUT POWER (Wp) |       |       |      |      |      |      |
|----------|------------------|-------|-------|------|------|------|------|
|          | 18000            | 15050 | 11450 | 8750 | 7750 | 6200 | 5200 |
| HEAD (m) | FLOW IN LPM      |       |       |      |      |      |      |
| 120      | 615              | 506   | 335   | 150  | 0    |      |      |
| 102      | 710              | 595   | 425   | 262  | 150  | 0    |      |
| 90       | 780              | 700   | 540   | 350  | 293  | 135  | 0    |

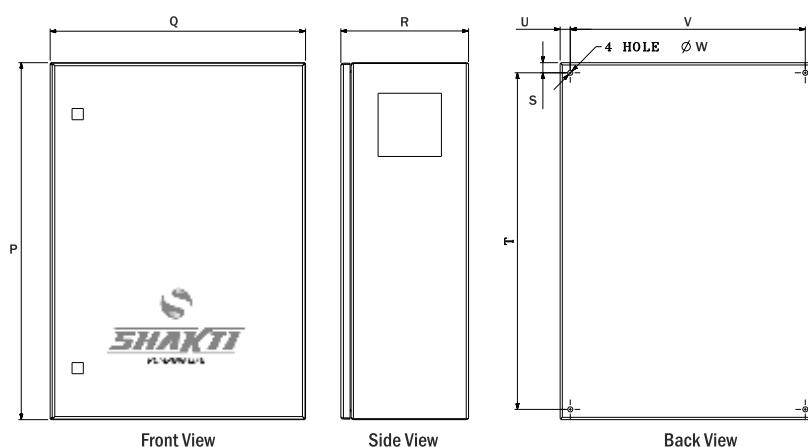


**SOLAR PUMPING SYSTEM**

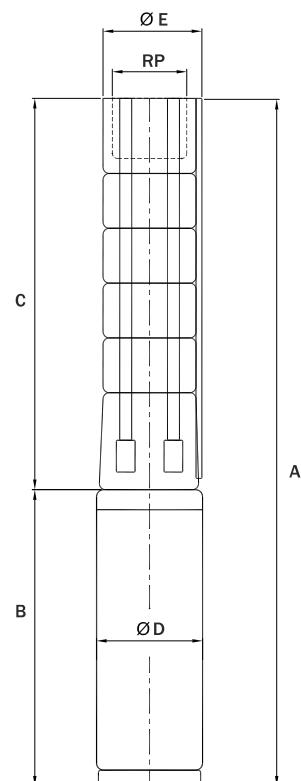
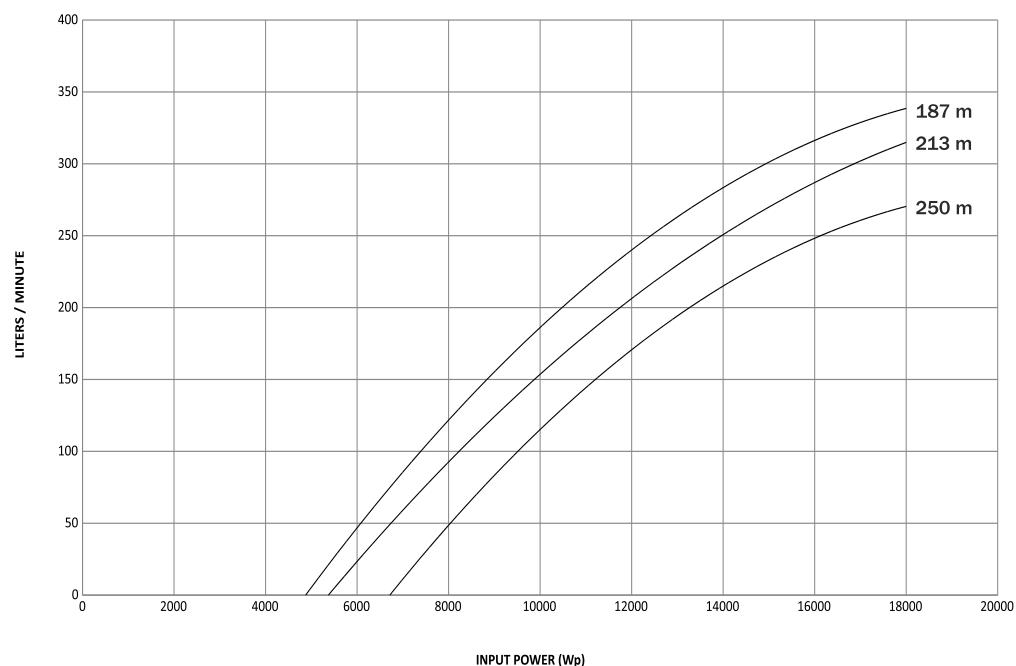
**SOLAR 20 DCSSP 18000**  
**BSP 50 mm (6X6)**  
**PUMPSET CODE** 9500001723  
**DISCHARGE (LPD)** 135000  
**DISCHARGE (LPW)** 7.5  
**DUTY HEAD** 200 METER  
**CHOKE CODE** 9000023926



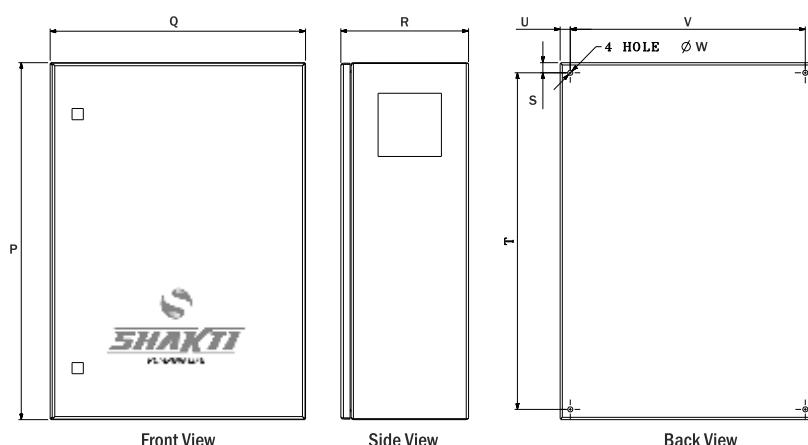
|          | INPUT POWER (Wp) |       |       |      |      |      |      |
|----------|------------------|-------|-------|------|------|------|------|
|          | 18000            | 14250 | 11700 | 8550 | 6350 | 5100 | 4600 |
| HEAD (m) | FLOW IN LPM      |       |       |      |      |      |      |
| 200      | 335              | 268   | 215   | 110  | 0    |      |      |
| 170      | 370              | 320   | 260   | 160  | 70   | 0    |      |
| 150      | 395              | 330   | 280   | 200  | 110  | 50   | 0    |

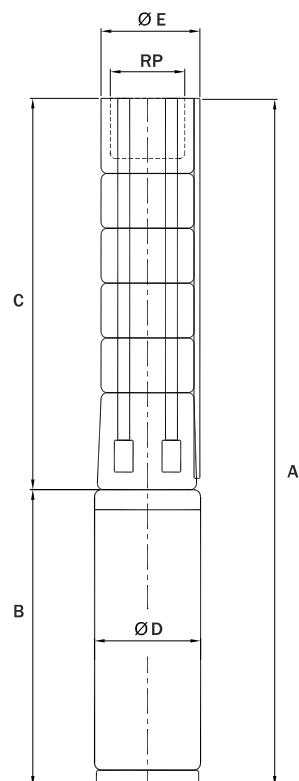
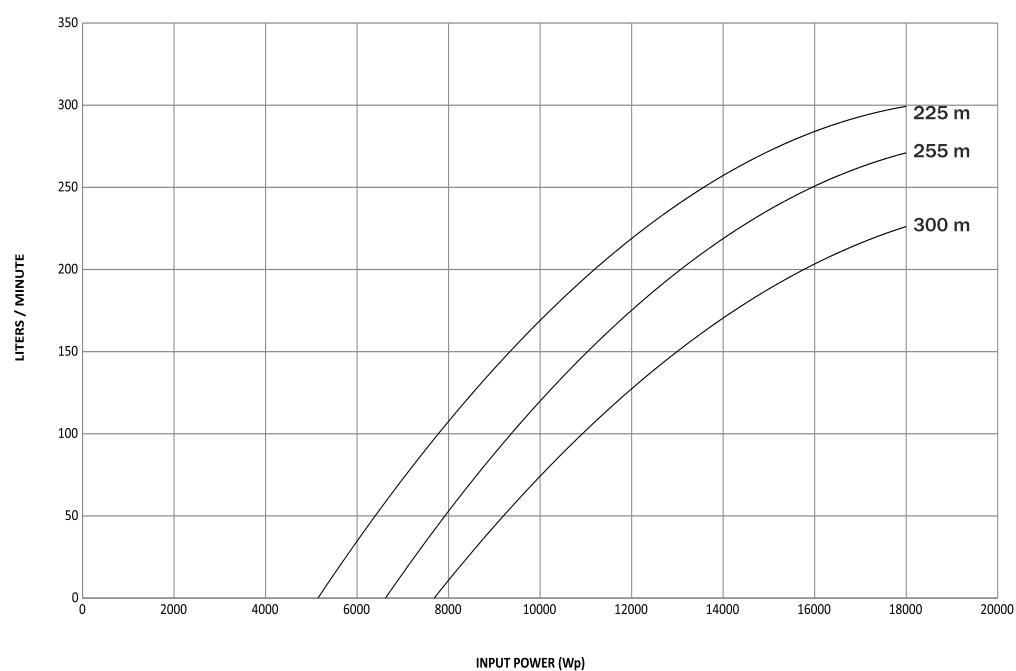


CONTROLLER CODE : 9000023556

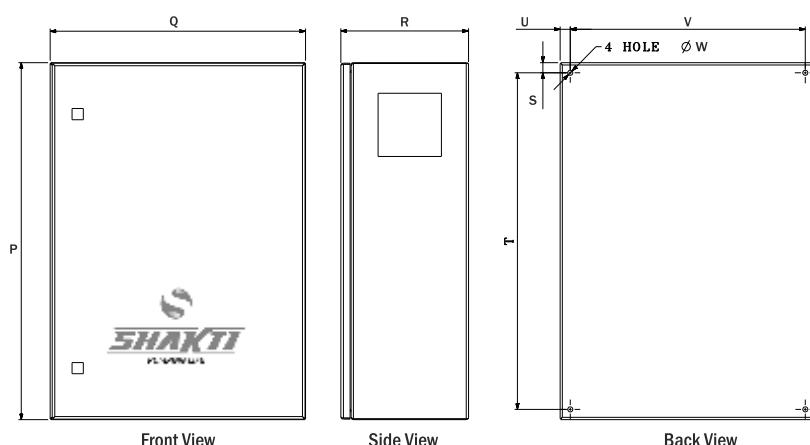
**SOLAR PUMPING SYSTEM**
**SOLAR 16 DCSSP 18000**
**BSP 50 mm (6X6)**
**PUMPSET CODE 9500000562**
**DISCHARGE (LPD) 99000**
**DISCHARGE (LPW) 5.5**
**DUTY HEAD 250 METER**
**CHOKE CODE 9000023926**


|          | INPUT POWER (Wp) |       |       |      |      |      |      |
|----------|------------------|-------|-------|------|------|------|------|
|          | 18000            | 14300 | 12250 | 9300 | 6950 | 5500 | 4800 |
| HEAD (m) | FLOW IN LPM      |       |       |      |      |      |      |
| 250      | 274              | 214   | 170   | 112  | 0    |      |      |
| 213      | 317              | 255   | 205   | 142  | 60   | 0    |      |
| 187      | 340              | 285   | 245   | 175  | 75   | 25   | 0    |


**CONTROLLER CODE : 9000023556**

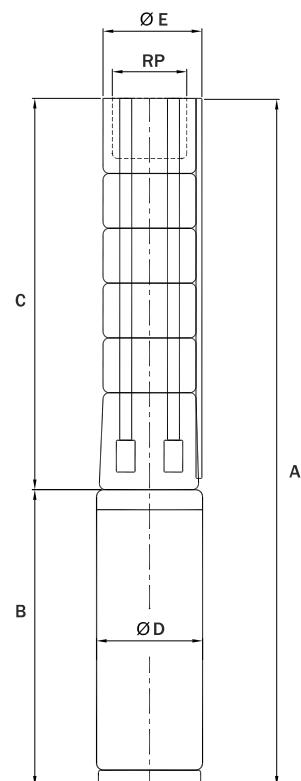
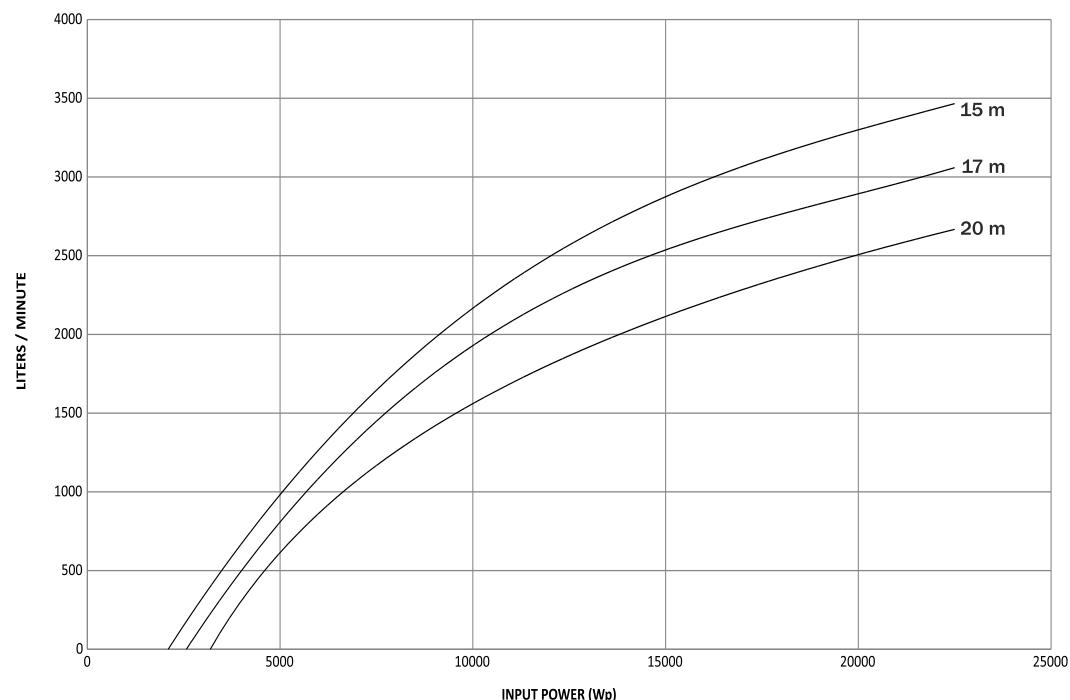
**SOLAR PUMPING SYSTEM**
**SOLAR 13 DCSSP 18000**
**BSP 50 mm (6X6)**
**PUMPSET CODE 9500000543**
**DISCHARGE (LPD) 72000**
**DISCHARGE (LPW) 4**
**DUTY HEAD 300 METER**
**CHOKE CODE 9000023926**


|          | INPUT POWER (Wp) |       |       |      |      |      |      |
|----------|------------------|-------|-------|------|------|------|------|
|          | 18000            | 14550 | 11300 | 9250 | 8000 | 6500 | 5350 |
| HEAD (m) | FLOW IN LPM      |       |       |      |      |      |      |
| 300      | 230              | 170   | 114   | 65   | 0    |      |      |
| 255      | 273              | 220   | 173   | 90   | 45   | 0    |      |
| 225      | 302              | 260   | 203   | 150  | 105  | 65   | 0    |

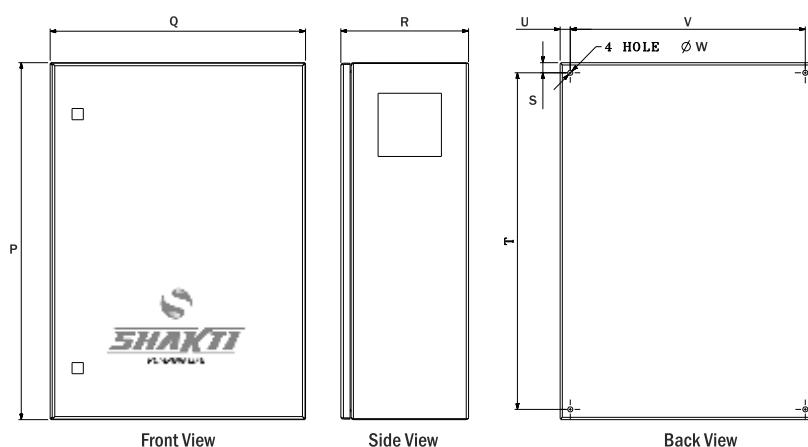


**SOLAR PUMPING SYSTEM**

**SOLAR 156 DCSSP 22500**  
**BSP 100 mm (6X8)**  
**PUMPSET CODE** 9500000897  
**DISCHARGE (LPD)** 1462500  
**DISCHARGE (LPW)** 65  
**DUTY HEAD** 20 METER

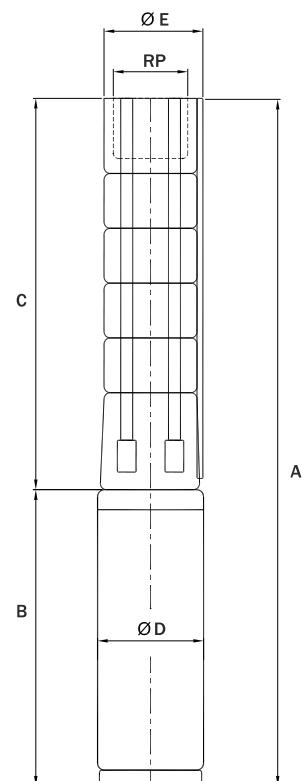
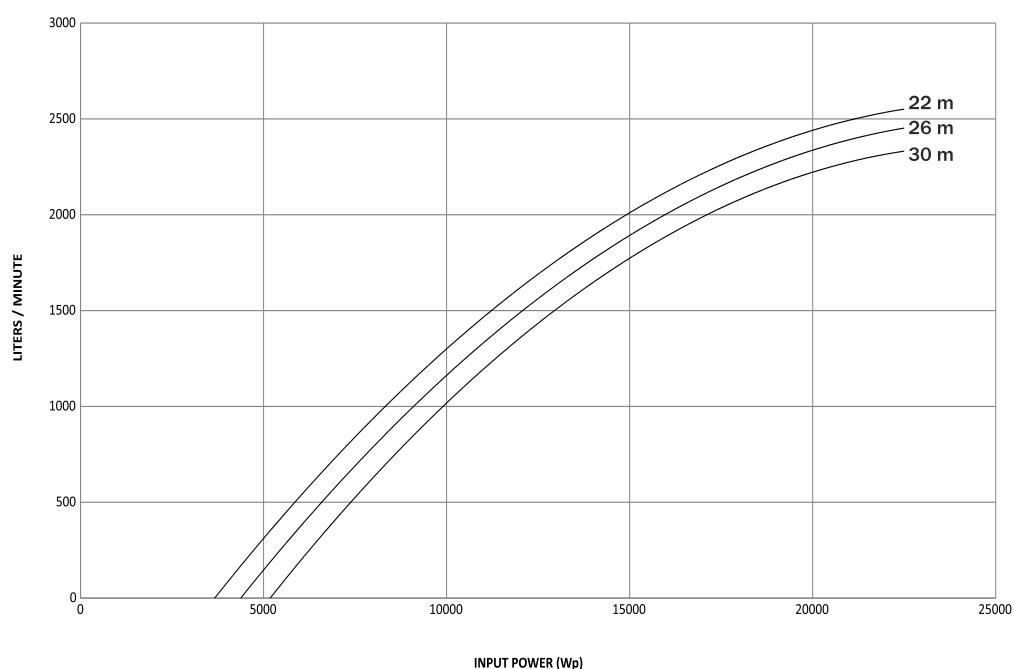


|          | INPUT POWER (Wp) |       |      |      |      |      |      |
|----------|------------------|-------|------|------|------|------|------|
|          | 22500            | 15750 | 9000 | 4500 | 3350 | 2600 | 2200 |
| HEAD (m) | FLOW IN LPM      |       |      |      |      |      |      |
| 20       | 2600             | 2210  | 1490 | 500  | 0    |      |      |
| 17       | 3059             | 2600  | 1753 | 650  | 300  | 0    |      |
| 15       | 3467             | 2947  | 1987 | 800  | 450  | 250  | 0    |

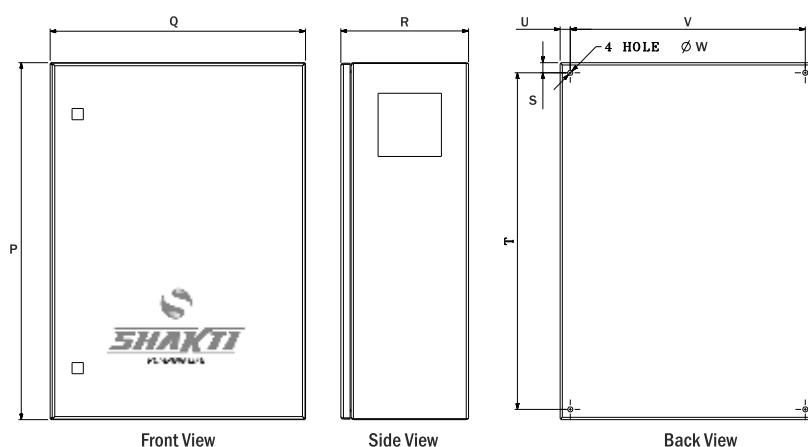


**SOLAR PUMPING SYSTEM**

**SOLAR 140 DCSSP 22500**  
**BSP 125 mm (6X8)**  
**PUMPSET CODE** 9500000894  
**DISCHARGE (LPD)** 1068750  
**DISCHARGE (LPW)** 47.5  
**DUTY HEAD** 30 METER

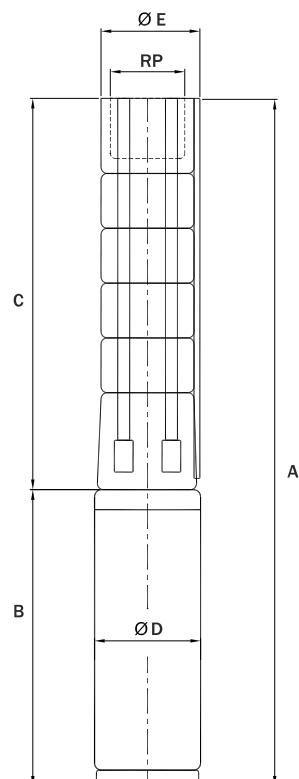
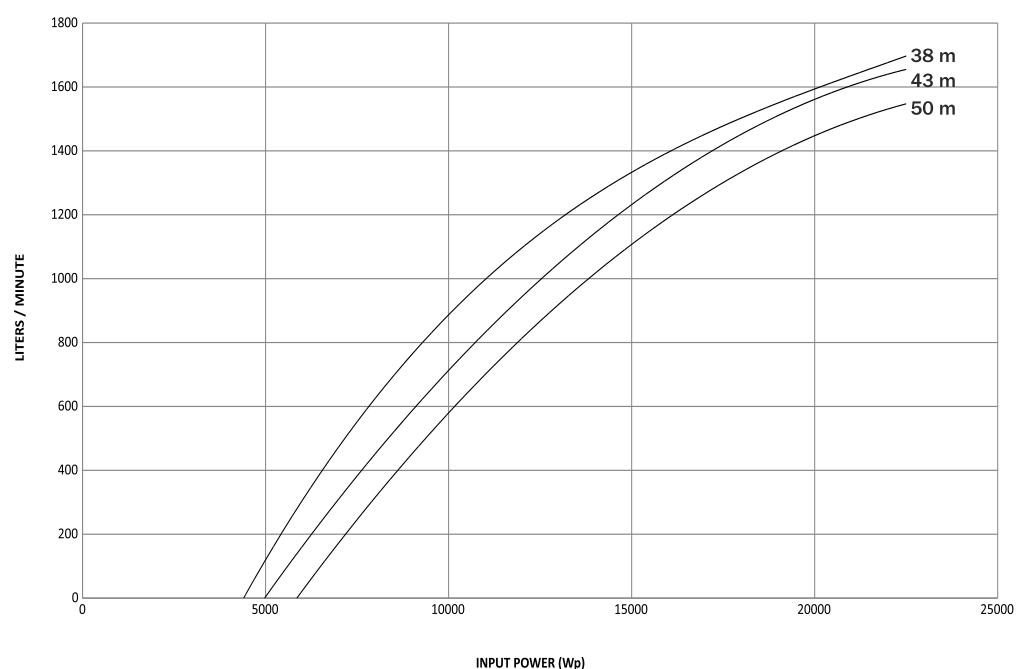


|          | INPUT POWER (Wp) |       |       |      |      |      |      |
|----------|------------------|-------|-------|------|------|------|------|
|          | 22500            | 18100 | 13600 | 6950 | 5400 | 4700 | 3800 |
| HEAD (m) | FLOW IN LPM      |       |       |      |      |      |      |
| 30       | 2350             | 2050  | 1600  | 470  | 0    |      |      |
| 26       | 2475             | 2165  | 1700  | 670  | 250  | 0    |      |
| 22       | 2565             | 2300  | 1800  | 820  | 400  | 220  | 0    |

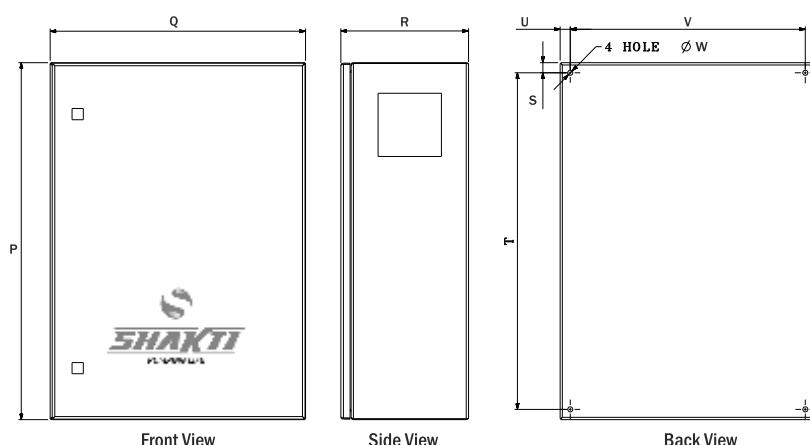


**SOLAR PUMPING SYSTEM**

**SOLAR 93 DCSSP 22500**  
**BSP 100 mm (6X6)**  
**PUMPSET CODE** 9500000637  
**DISCHARGE (LPD)** 641250  
**DISCHARGE (LPW)** 28.5  
**DUTY HEAD** 50 METER

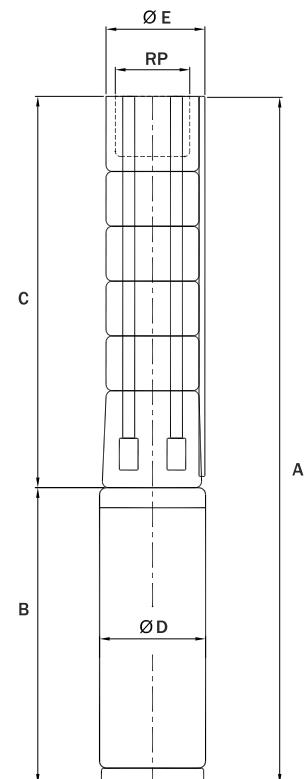
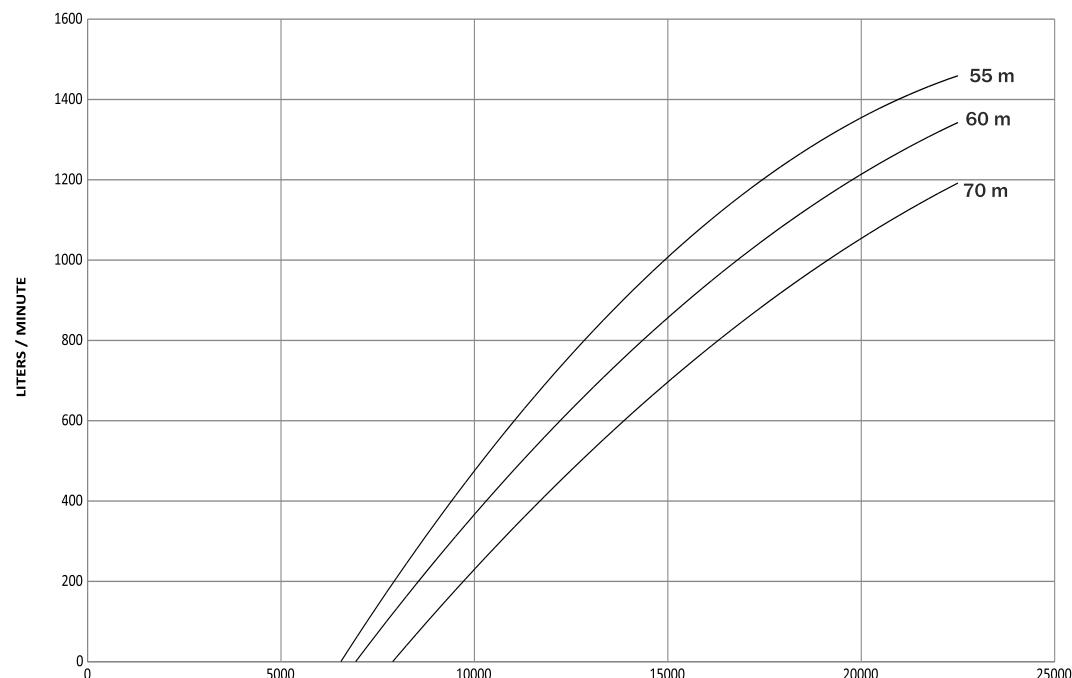


|          | INPUT POWER (Wp) |       |       |      |      |      |      |
|----------|------------------|-------|-------|------|------|------|------|
|          | 22500            | 16600 | 10700 | 7900 | 6050 | 5000 | 4250 |
| HEAD (m) | FLOW IN LPM      |       |       |      |      |      |      |
| 50       | 1555             | 1215  | 670   | 340  | 0    |      |      |
| 43       | 1650             | 1370  | 800   | 400  | 200  | 0    |      |
| 38       | 1700             | 1415  | 1000  | 600  | 290  | 100  | 0    |

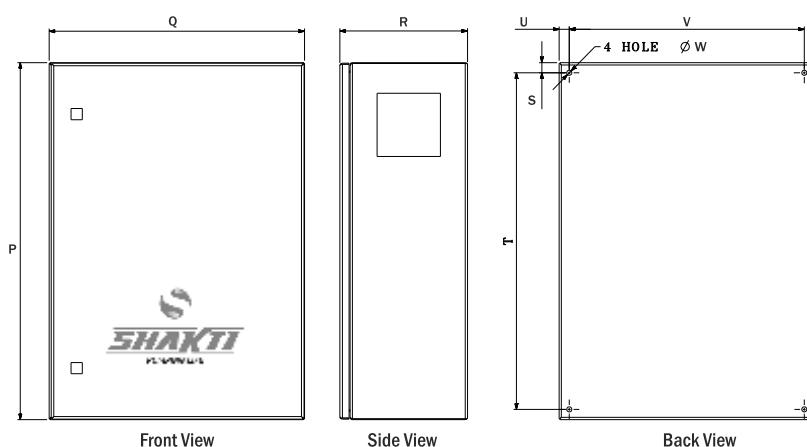


**SOLAR PUMPING SYSTEM**

**SOLAR 72 DCSSP 22500**  
**BSP 100 mm (6X6)**  
**PUMPSET CODE** 9500000881  
**DISCHARGE (LPD)** 405000  
**DISCHARGE (LPW)** 18  
**DUTY HEAD** 70 METER

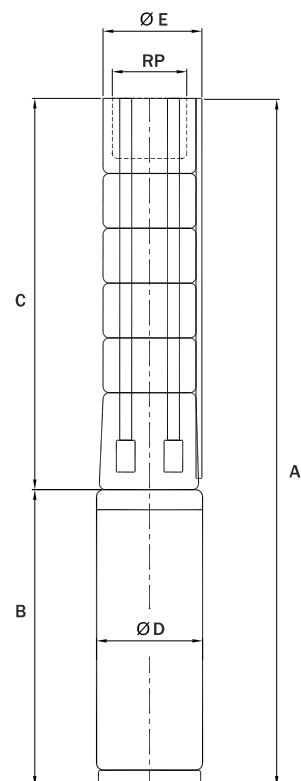
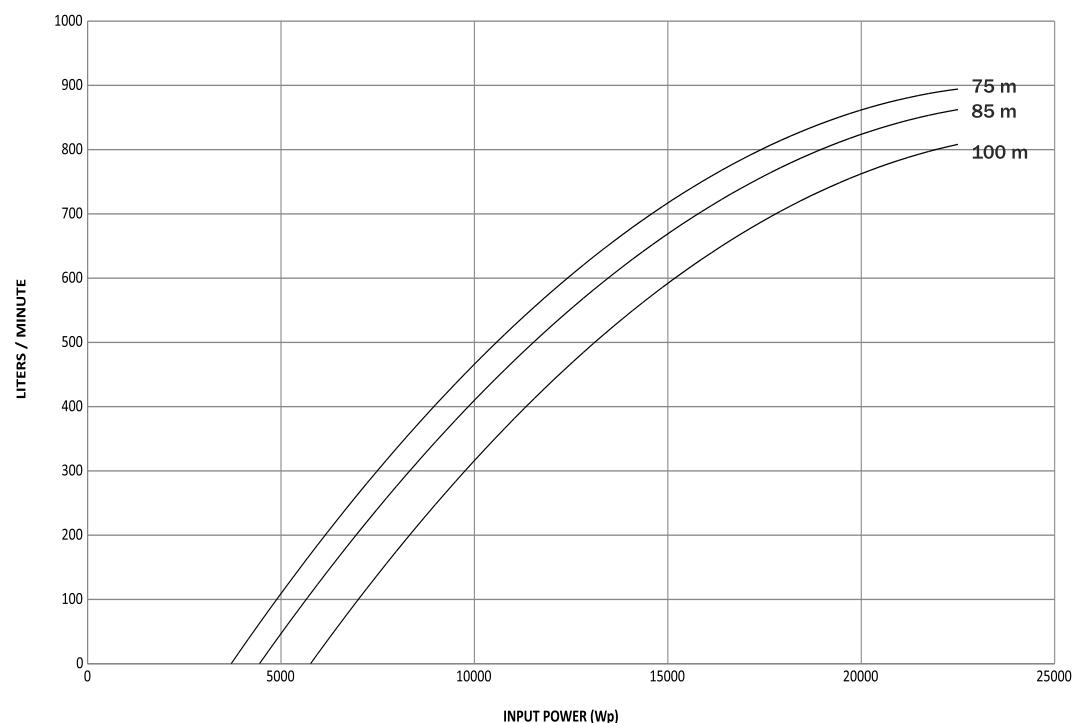


|          | INPUT POWER (W <sub>p</sub> ) |       |       |      |      |      |      |
|----------|-------------------------------|-------|-------|------|------|------|------|
|          | 22500                         | 18000 | 11200 | 9000 | 8100 | 6750 | 6300 |
| HEAD (m) | FLOW IN LPM                   |       |       |      |      |      |      |
| 70       | 1200                          | 905   | 370   | 140  | 0    |      |      |
| 60       | 1330                          | 1115  | 475   | 250  | 130  | 0    |      |
| 53       | 1430                          | 1300  | 600   | 300  | 200  | 50   | 0    |

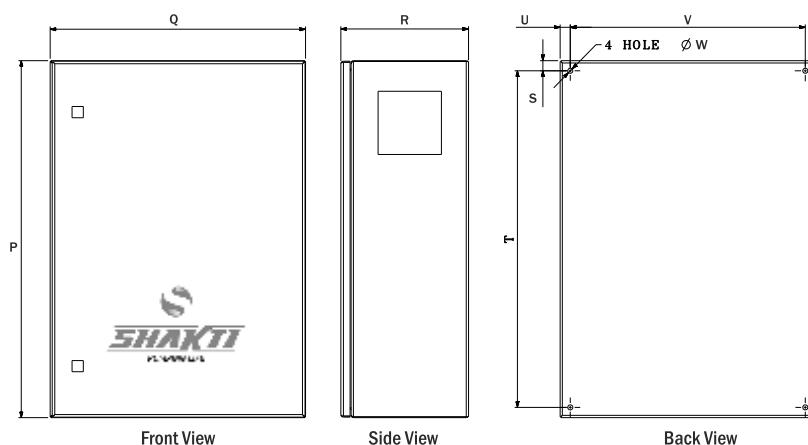


**SOLAR PUMPING SYSTEM**

**SOLAR 48 DCSSP 22500**  
**BSP 75 mm (6X6)**  
**PUMPSET CODE** 9500001748  
**DISCHARGE (LPD)** 348750  
**DISCHARGE (LPW)** 15.5  
**DUTY HEAD** 100 METER  
**CHOKE CODE** 9000023926

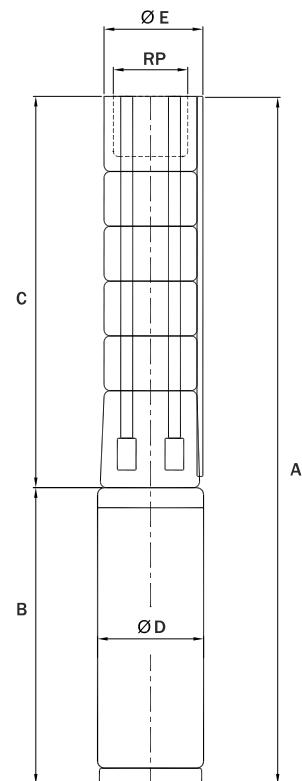
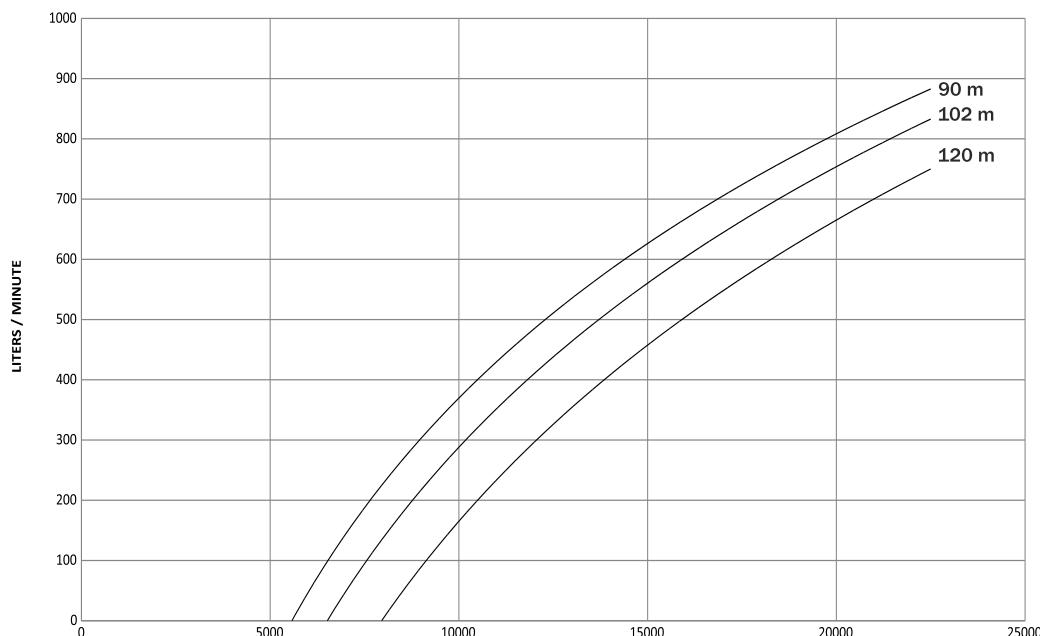


|          | INPUT POWER (Wp) |       |       |      |      |      |      |
|----------|------------------|-------|-------|------|------|------|------|
|          | 22500            | 18000 | 13500 | 6700 | 6050 | 4800 | 4000 |
| HEAD (m) | FLOW IN LPM      |       |       |      |      |      |      |
| 100      | 815              | 690   | 530   | 100  | 0    |      |      |
| 85       | 872              | 755   | 605   | 200  | 150  | 0    |      |
| 75       | 905              | 796   | 655   | 260  | 200  | 100  | 0    |

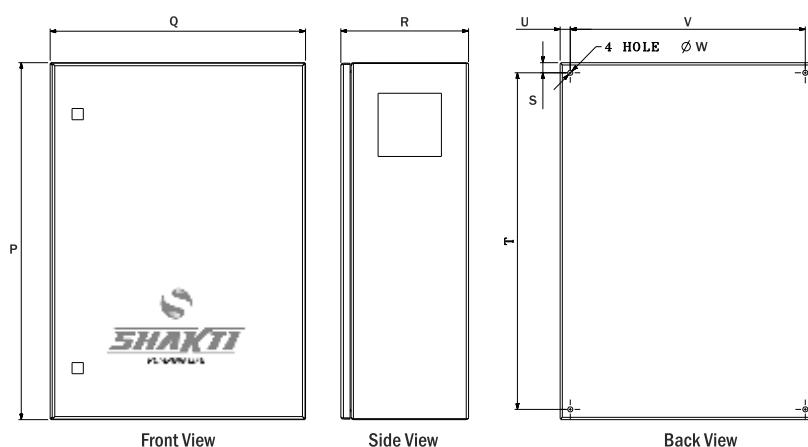


**SOLAR PUMPING SYSTEM**

**SOLAR 44 DCSSP 22500**  
**BSP 75 mm (6X6)**  
**PUMPSET CODE** 9500001716  
**DISCHARGE (LPD)** 270000  
**DISCHARGE (LPW)** 12  
**DUTY HEAD** 120 METER  
**CHOKE CODE** 9000023926

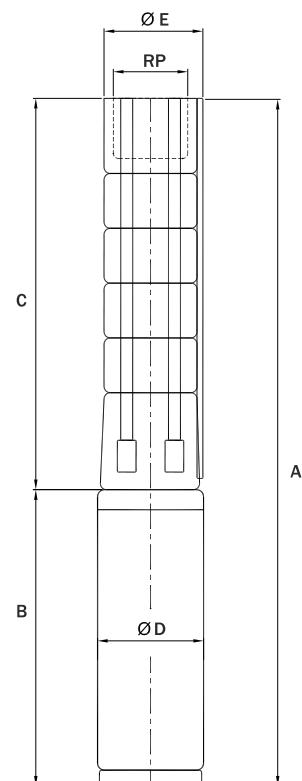
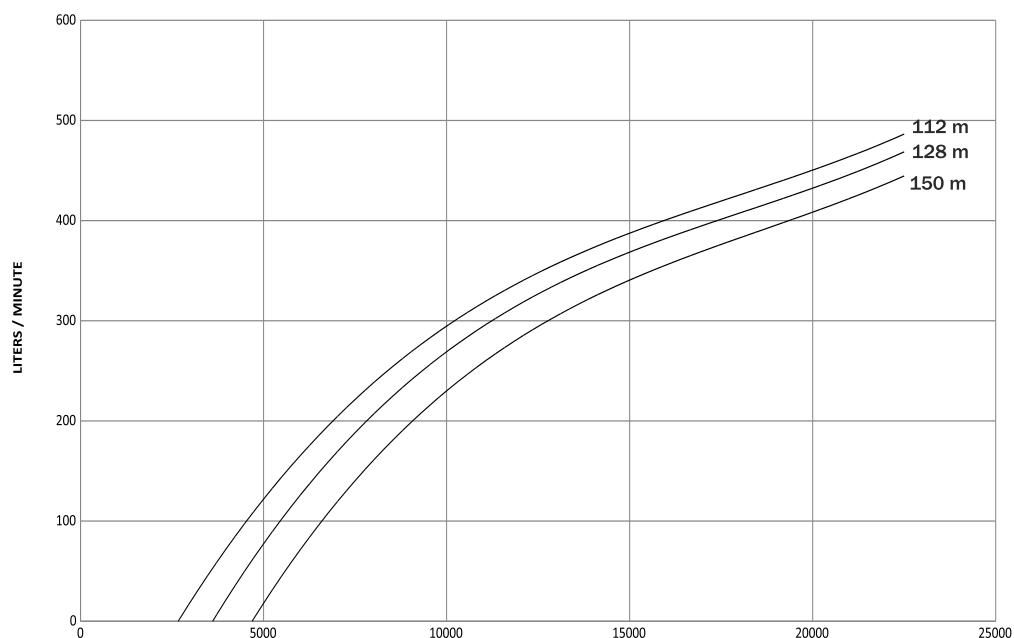


|          | INPUT POWER (Wp) |       |       |      |      |      |      |
|----------|------------------|-------|-------|------|------|------|------|
|          | 22500            | 18000 | 13450 | 9000 | 8350 | 7000 | 6000 |
| HEAD (m) | FLOW IN LPM      |       |       |      |      |      |      |
| 120      | 735              | 590   | 405   | 112  | 0    |      |      |
| 102      | 815              | 680   | 505   | 255  | 180  | 0    |      |
| 90       | 865              | 735   | 575   | 340  | 250  | 165  | 0    |

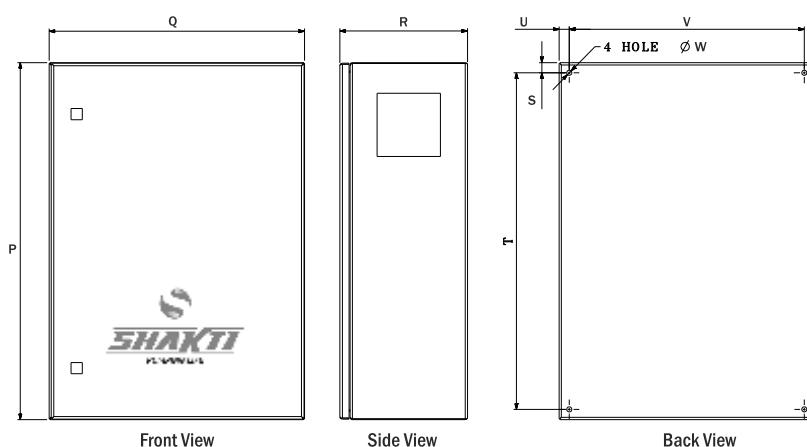


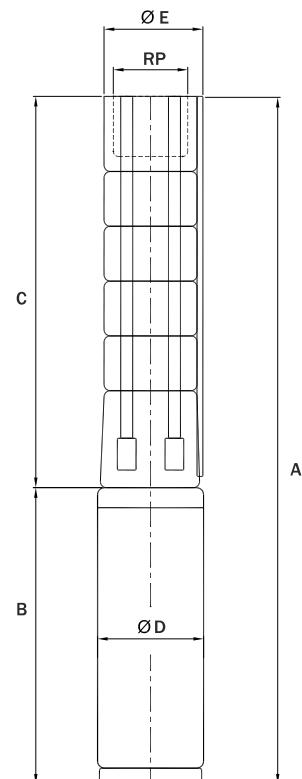
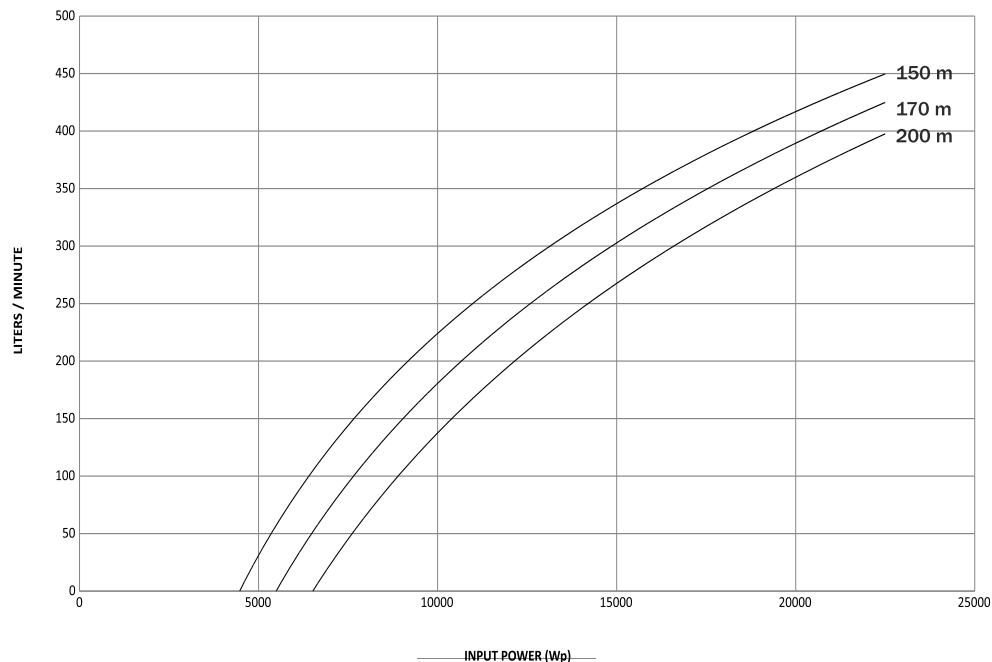
**SOLAR PUMPING SYSTEM**

**SOLAR 26 DCSSP 22500**  
**BSP 50 mm (6X6)**  
**PUMPSET CODE** 9500000860  
**DISCHARGE (LPD)** 202500  
**DISCHARGE (LPW)** 9  
**DUTY HEAD** 150 METER  
**CHOKE CODE** 9000023926

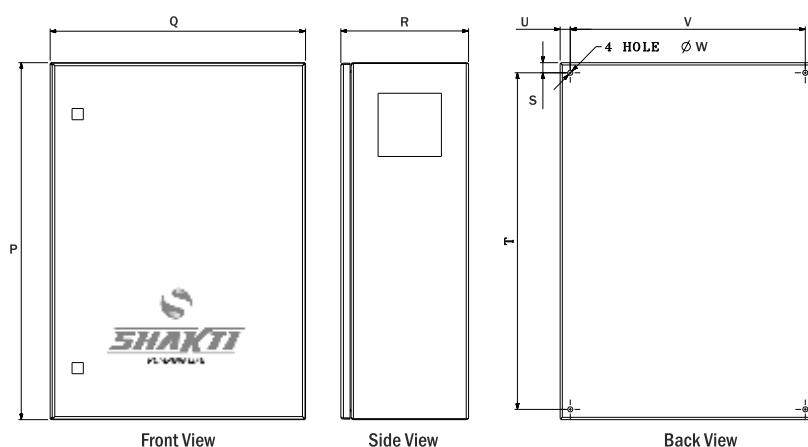


|          | INPUT POWER (Wp) |       |       |      |      |      |      |
|----------|------------------|-------|-------|------|------|------|------|
|          | 22500            | 18000 | 13450 | 9000 | 4700 | 3600 | 2800 |
| HEAD (m) | FLOW IN LPM      |       |       |      |      |      |      |
| 150      | 444              | 385   | 310   | 200  | 0    |      |      |
| 128      | 468              | 410   | 340   | 243  | 60   | 0    |      |
| 112      | 485              | 430   | 360   | 267  | 110  | 60   | 0    |



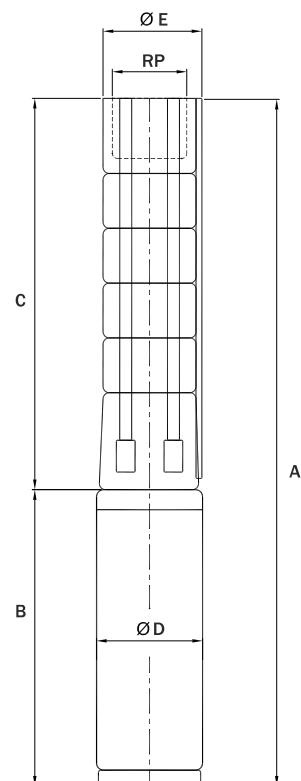
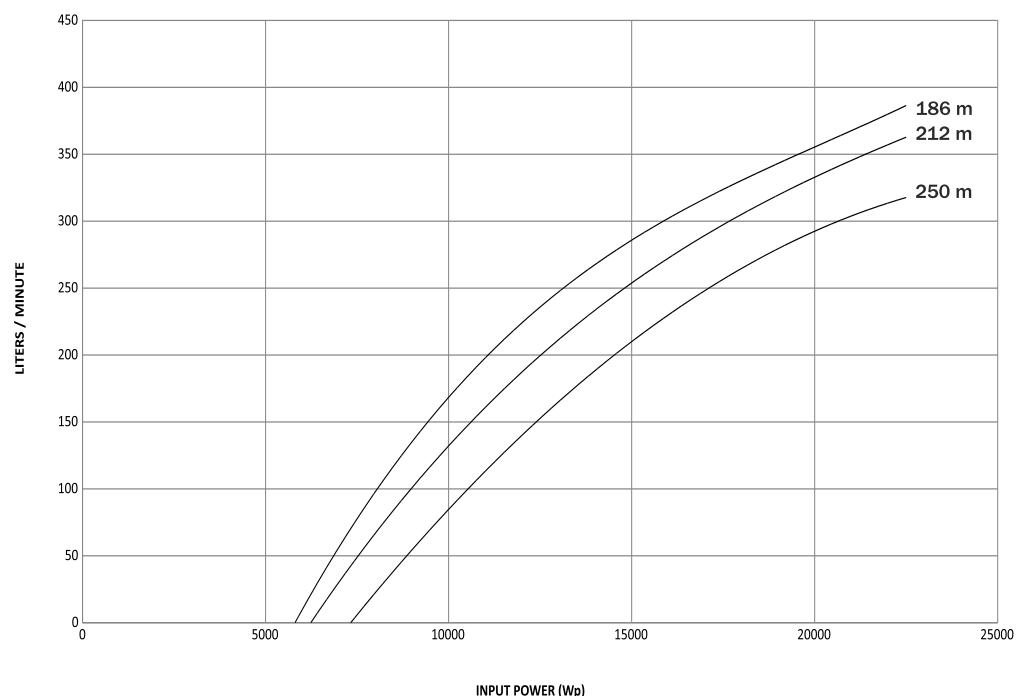
**SOLAR PUMPING SYSTEM**
**SOLAR 23 DCSSP 22500**
**BSP 50 mm (6X6)**
**PUMPSET CODE 9500000837**
**DISCHARGE (LPD) 157500**
**DISCHARGE (LPW) 7**
**DUTY HEAD 200 METER**
**CHOKE CODE 9000023926**


|          | INPUT POWER (Wp) |       |       |       |      |      |      |
|----------|------------------|-------|-------|-------|------|------|------|
|          | 22500            | 18000 | 13500 | 11200 | 6700 | 5600 | 4700 |
| HEAD (m) | FLOW IN LPM      |       |       |       |      |      |      |
| 200      | 390              | 325   | 240   | 185   | 0    |      |      |
| 170      | 422              | 360   | 282   | 200   | 70   | 0    |      |
| 150      | 444              | 385   | 310   | 260   | 130  | 60   | 0    |

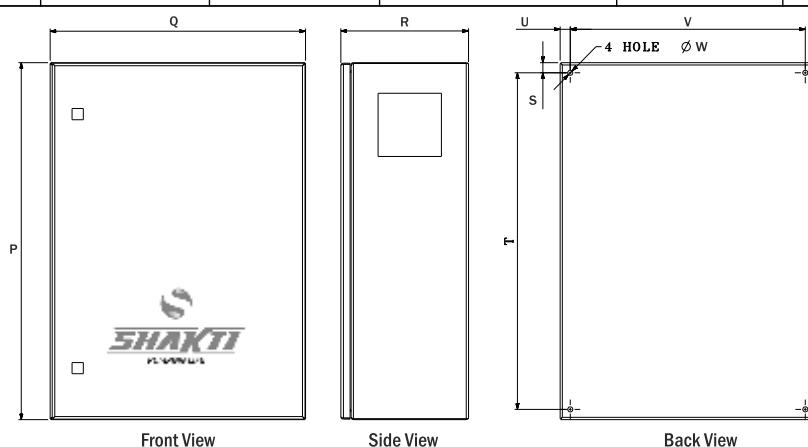


**SOLAR PUMPING SYSTEM**

**SOLAR 19 DCSSP 22500**  
**BSP 50 mm (6X6)**  
**PUMPSET CODE** 9500001715  
**DISCHARGE (LPD)** 123750  
**DISCHARGE (LPW)** 5.5  
**DUTY HEAD** 250 METER  
**CHOKE CODE** 9000023926

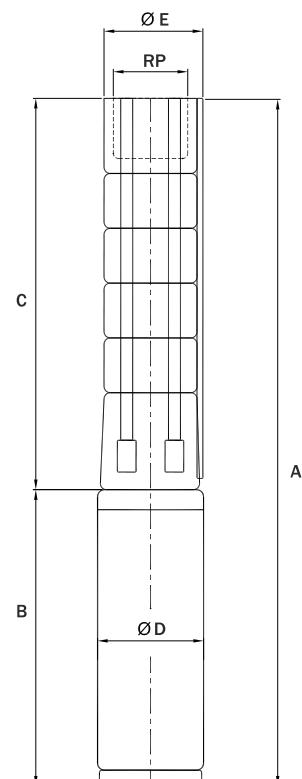
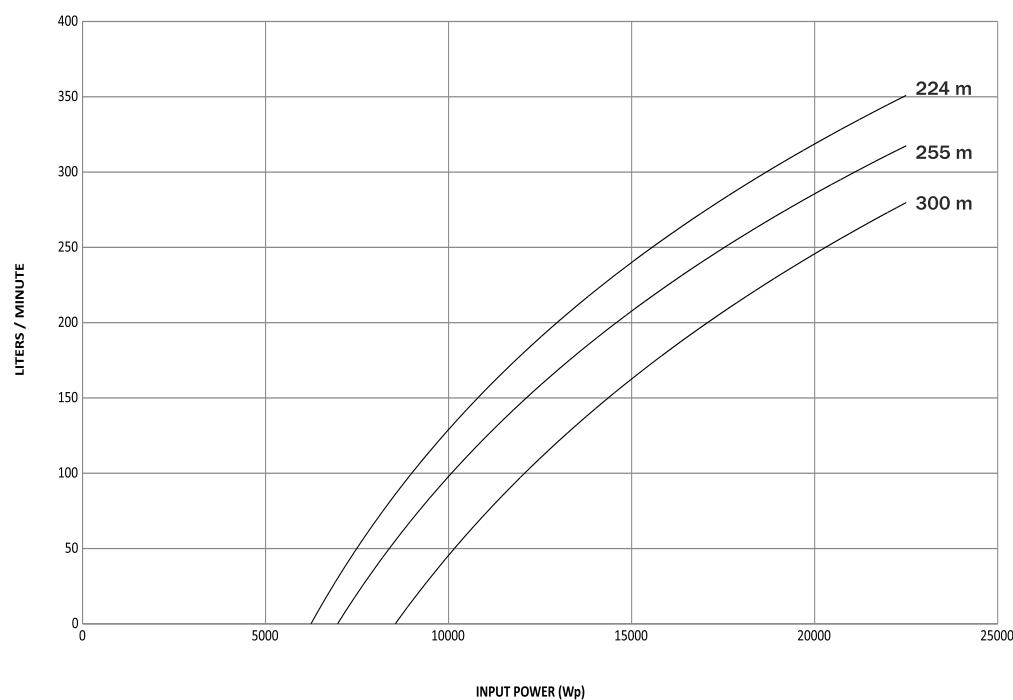


|          | INPUT POWER (Wp) |       |       |      |      |      |      |
|----------|------------------|-------|-------|------|------|------|------|
|          | 22500            | 18000 | 13500 | 9400 | 7600 | 6200 | 6000 |
| HEAD (m) | FLOW IN LPM      |       |       |      |      |      |      |
| 250      | 320              | 260   | 175   | 80   | 0    |      |      |
| 212      | 363              | 304   | 224   | 114  | 50   | 0    |      |
| 186      | 386              | 332   | 255   | 151  | 80   | 30   | 0    |

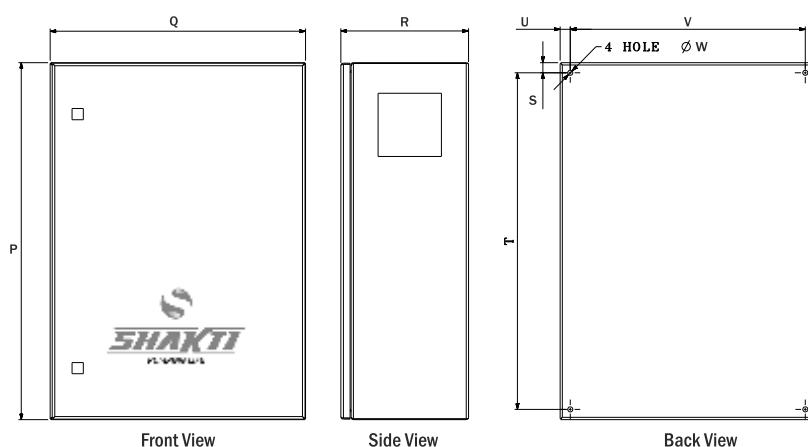


**SOLAR PUMPING SYSTEM**

**SOLAR 16 DCSSP 22500**  
**BSP 50 mm (6X6)**  
**PUMPSET CODE** 9500000851  
**DISCHARGE (LPD)** 90000  
**DISCHARGE (LPW)** 4  
**DUTY HEAD** 300 METER  
**CHOKE CODE** 9000023926

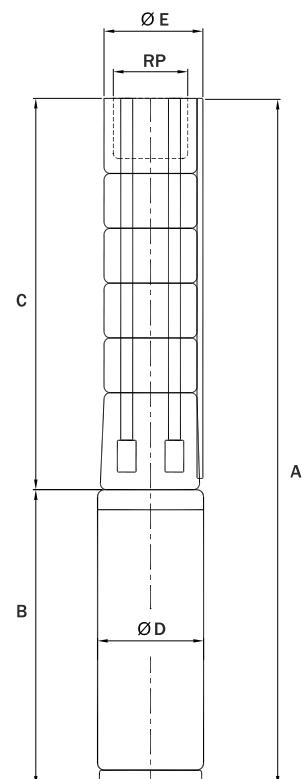
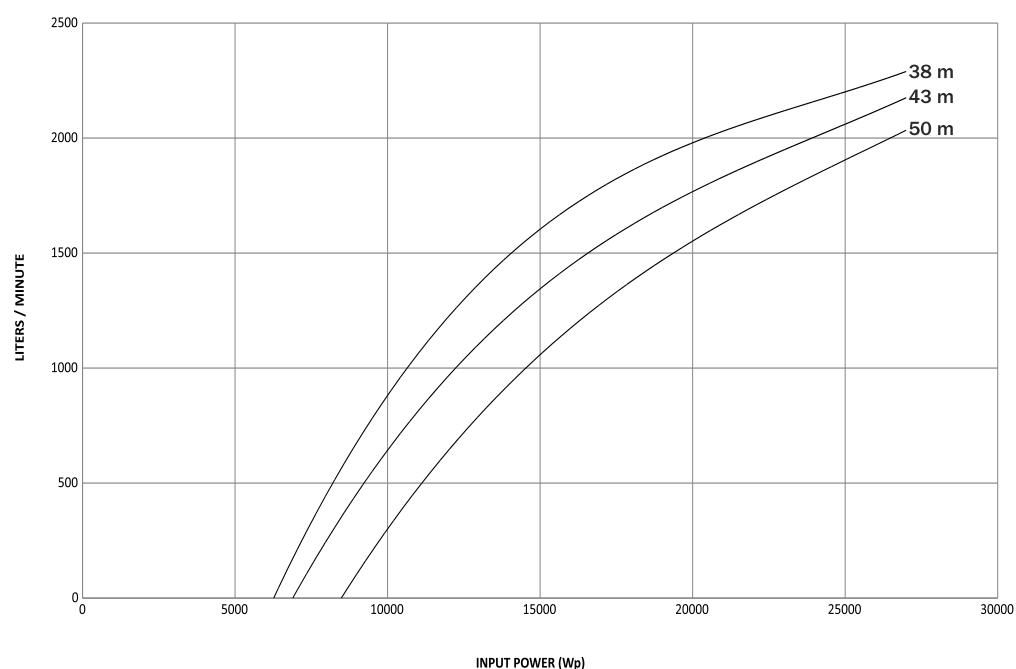


|          | INPUT POWER (Wp) |       |       |       |      |      |      |
|----------|------------------|-------|-------|-------|------|------|------|
|          | 22500            | 18000 | 13500 | 11200 | 8989 | 7200 | 6500 |
| HEAD (m) | FLOW IN LPM      |       |       |       |      |      |      |
| 300      | 275              | 210   | 146   | 89    | 0    |      |      |
| 255      | 317              | 255   | 178   | 130   | 80   | 0    |      |
| 224      | 347              | 288   | 212   | 165   | 110  | 40   | 0    |

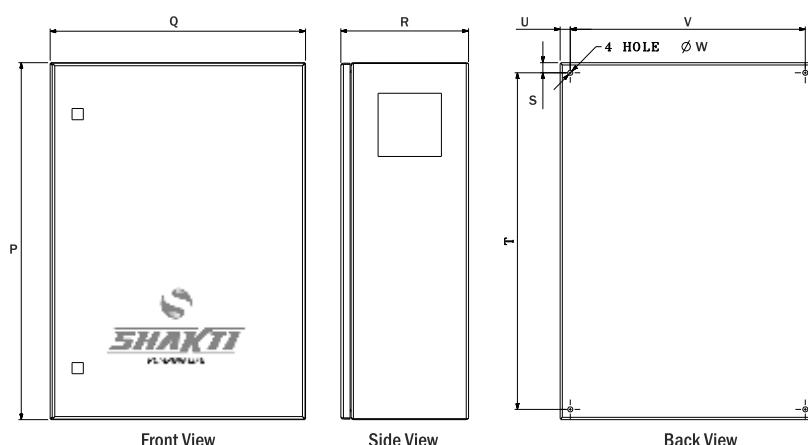


**SOLAR PUMPING SYSTEM**

**SOLAR 121 DCSSP 27000**  
**BSP 100 mm (6X8)**  
**PUMPSET CODE** 9500000893  
**DISCHARGE (LPD)** 769500  
**DISCHARGE (LPW)** 28.5  
**DUTY HEAD** 50 METER

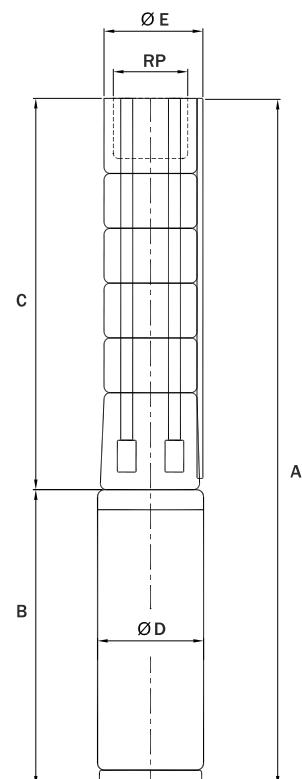
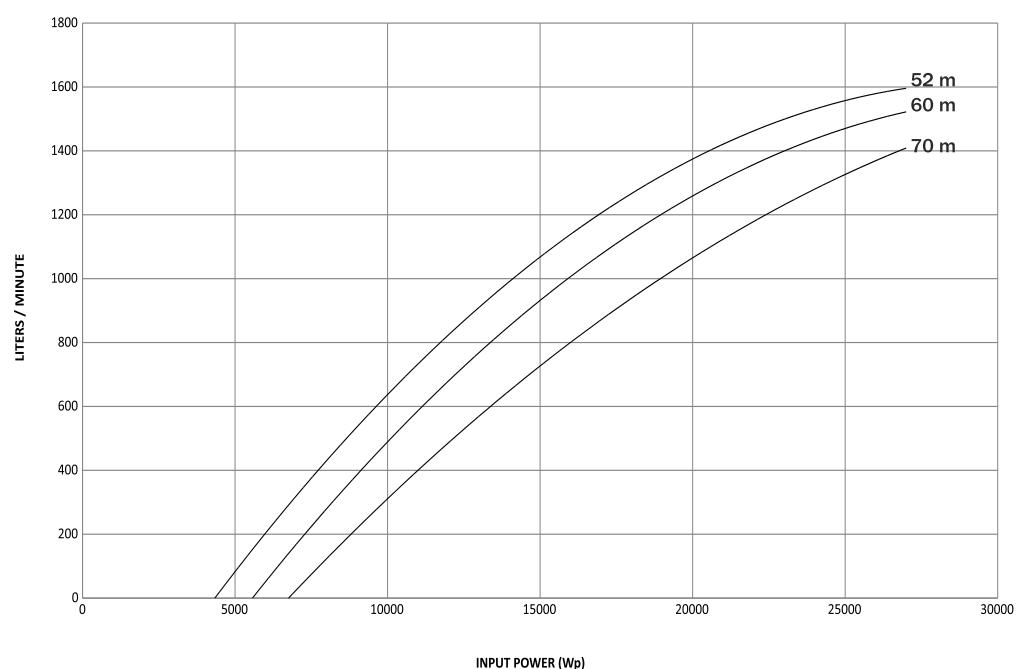


|          | INPUT POWER (Wp) |       |       |       |      |      |      |
|----------|------------------|-------|-------|-------|------|------|------|
|          | 27000            | 22140 | 14210 | 10440 | 8620 | 6850 | 6170 |
| HEAD (m) | FLOW IN LPM      |       |       |       |      |      |      |
| 50       | 2030             | 1725  | 925   | 435   | 0    |      |      |
| 43       | 2175             | 1900  | 1250  | 745   | 350  | 0    |      |
| 38       | 2290             | 2080  | 1520  | 960   | 610  | 120  | 0    |

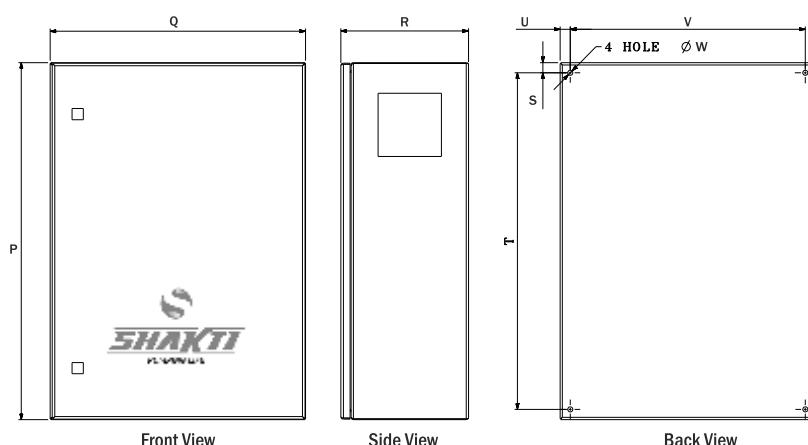


**SOLAR PUMPING SYSTEM**

**SOLAR 84 DCSSP 27000**  
**BSP 100 mm (6X6)**  
**PUMPSET CODE** 9500000889  
**DISCHARGE (LPD)** 526500  
**DISCHARGE (LPW)** 19.5  
**DUTY HEAD** 70 METER

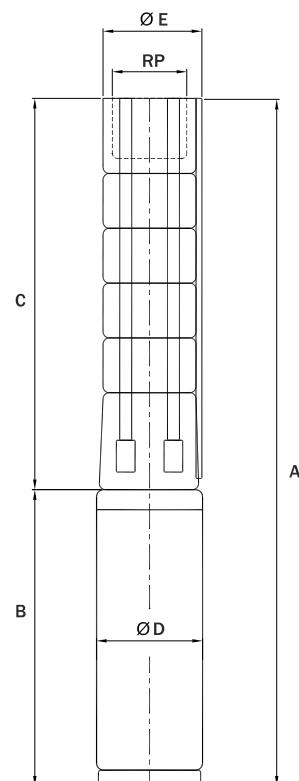
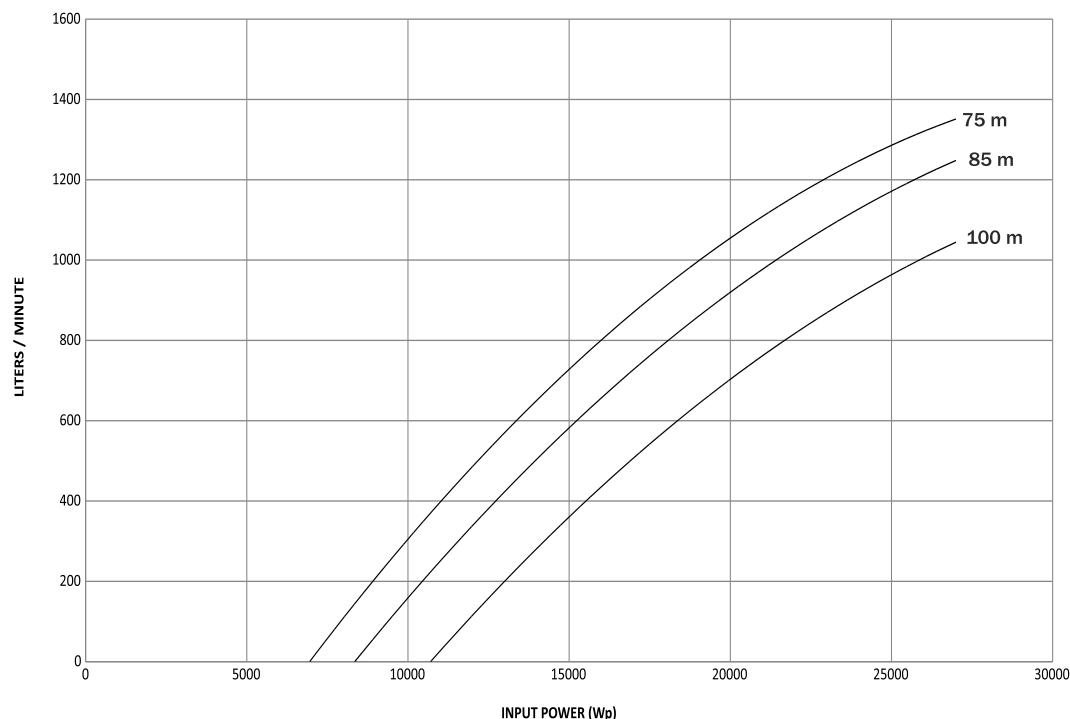


|          | INPUT POWER (Wp) |       |       |      |      |      |      |
|----------|------------------|-------|-------|------|------|------|------|
|          | 27000            | 21550 | 16200 | 8050 | 6700 | 5800 | 4800 |
| HEAD (m) | FLOW IN LPM      |       |       |      |      |      |      |
| 70       | 1410             | 1150  | 820   | 120  | 0    |      |      |
| 60       | 1530             | 1320  | 1025  | 300  | 150  | 0    |      |
| 52       | 1615             | 1410  | 1150  | 470  | 310  | 195  | 0    |

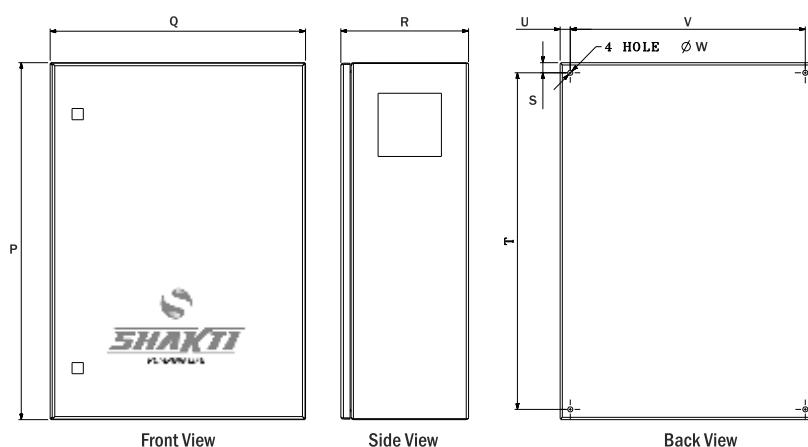


**SOLAR PUMPING SYSTEM**

**SOLAR 64.5 DCSSP 27000**  
**BSP 100 mm (6X6)**  
**PUMPSET CODE** 9500001720  
**DISCHARGE (LPD)** 337500  
**DISCHARGE (LPW)** 12.5  
**DUTY HEAD** 100 METER  
**CHOKE CODE** 9000023926

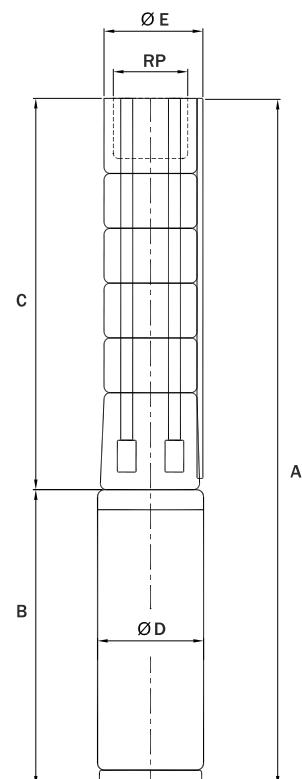
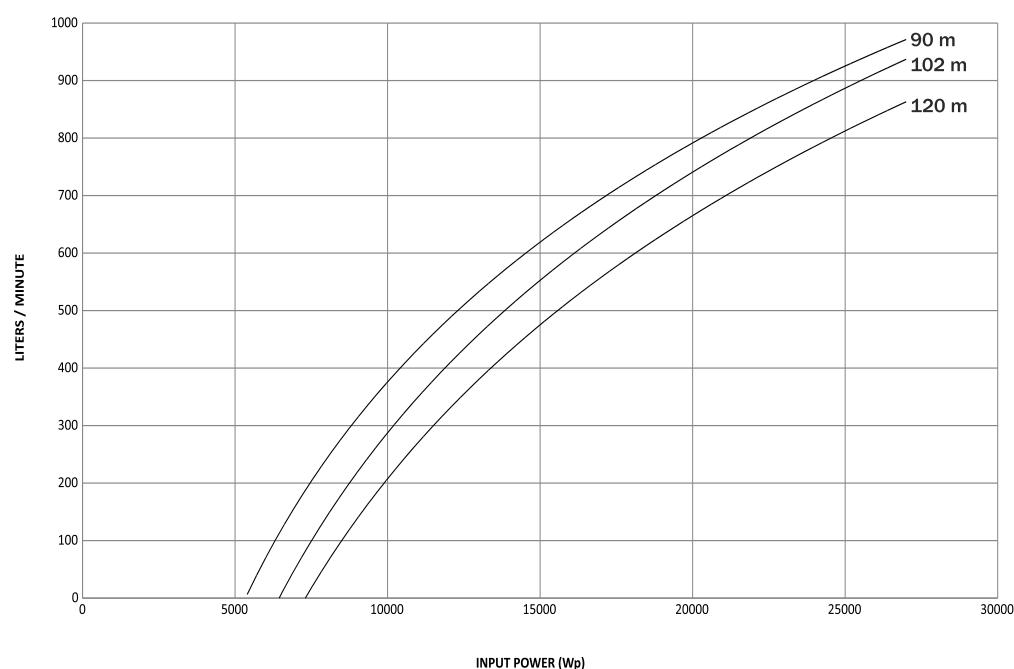


|          | INPUT POWER (Wp) |       |       |       |       |      |      |
|----------|------------------|-------|-------|-------|-------|------|------|
|          | 27000            | 21600 | 16200 | 13500 | 10800 | 8500 | 7000 |
| HEAD (m) | FLOW IN LPM      |       |       |       |       |      |      |
| 100      | 1050             | 780   | 460   | 250   | 0     |      |      |
| 85       | 1250             | 1010  | 650   | 480   | 250   | 0    |      |
| 75       | 1355             | 1135  | 800   | 620   | 400   | 150  | 0    |

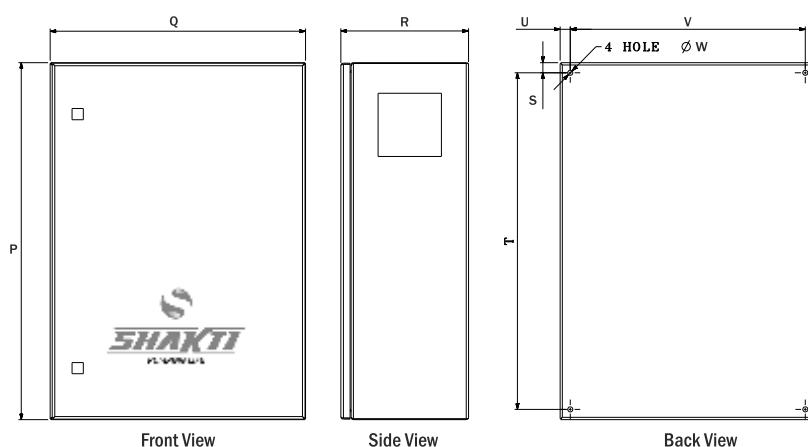


**SOLAR PUMPING SYSTEM**

**SOLAR 60 DCSSP 27000**  
**BSP 75 mm (6X6)**  
**PUMPSET CODE** 9500000877  
**DISCHARGE (LPD)** 351000  
**DISCHARGE (LPW)** 13  
**DUTY HEAD** 120 METER  
**CHOKE CODE** 9000023926

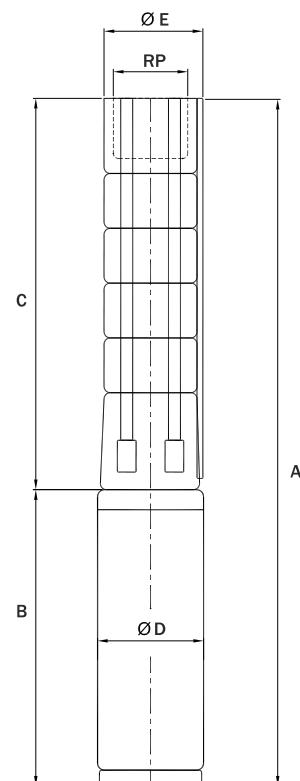
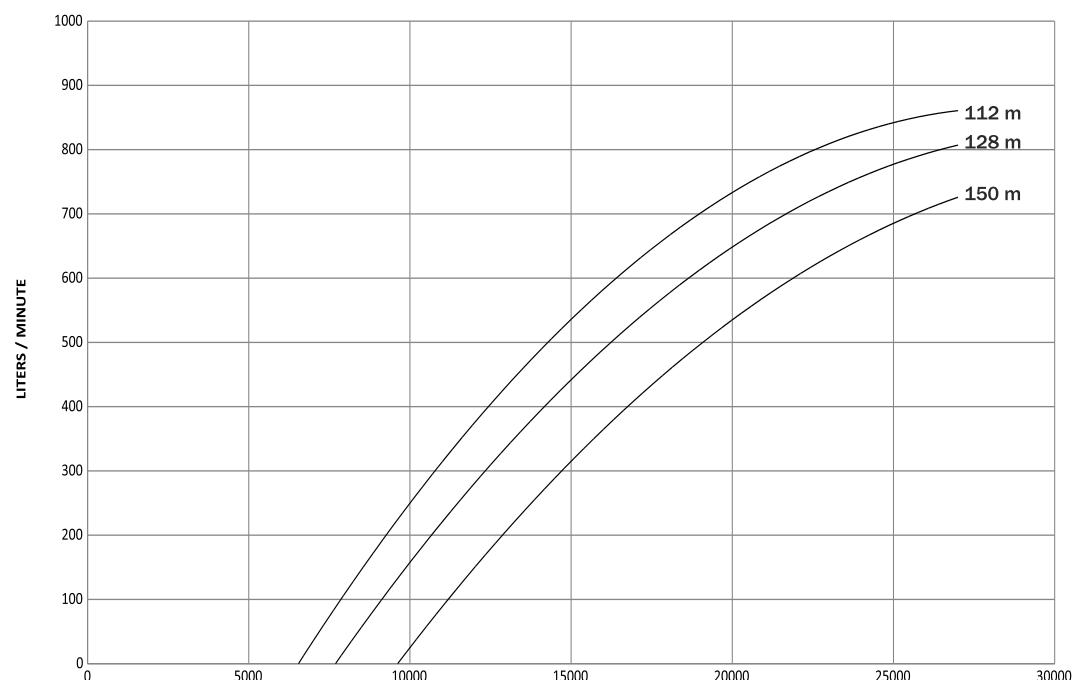


|          | INPUT POWER (Wp) |       |       |       |      |      |      |
|----------|------------------|-------|-------|-------|------|------|------|
|          | 27000            | 21550 | 16200 | 10800 | 7600 | 6800 | 6000 |
| HEAD (m) | FLOW IN LPM      |       |       |       |      |      |      |
| 120      | 850              | 713   | 535   | 290   | 0    |      |      |
| 102      | 910              | 785   | 625   | 390   | 100  | 0    |      |
| 90       | 950              | 830   | 680   | 455   | 210  | 195  | 0    |

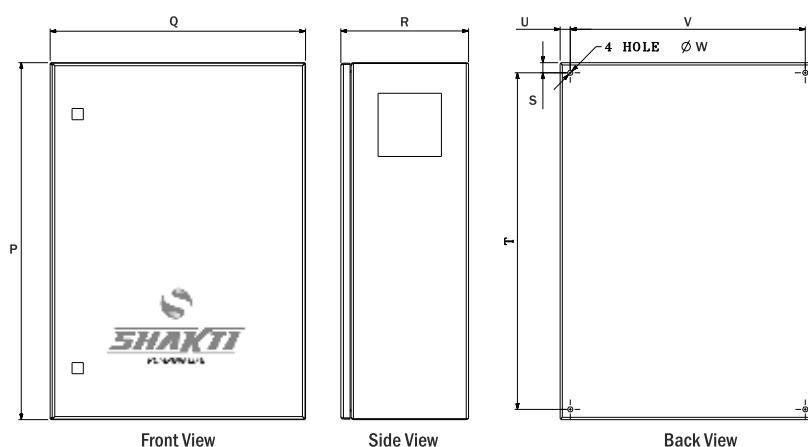


**SOLAR PUMPING SYSTEM**

**SOLAR 43 DCSSP 27000**  
**BSP 75 mm (6X6)**  
**PUMPSET CODE** 9500001717  
**DISCHARGE (LPD)** 270000  
**DISCHARGE (LPW)** 10  
**DUTY HEAD** 150 METER  
**CHOKE CODE** 9000023926

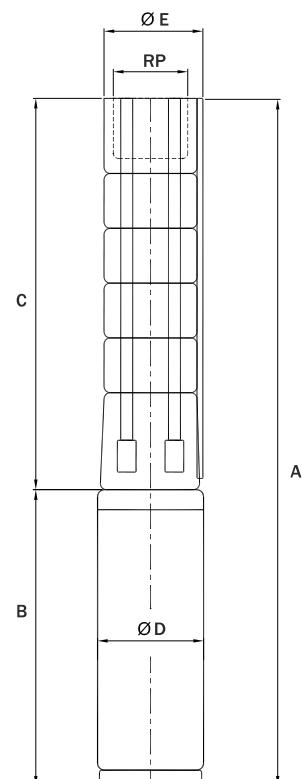
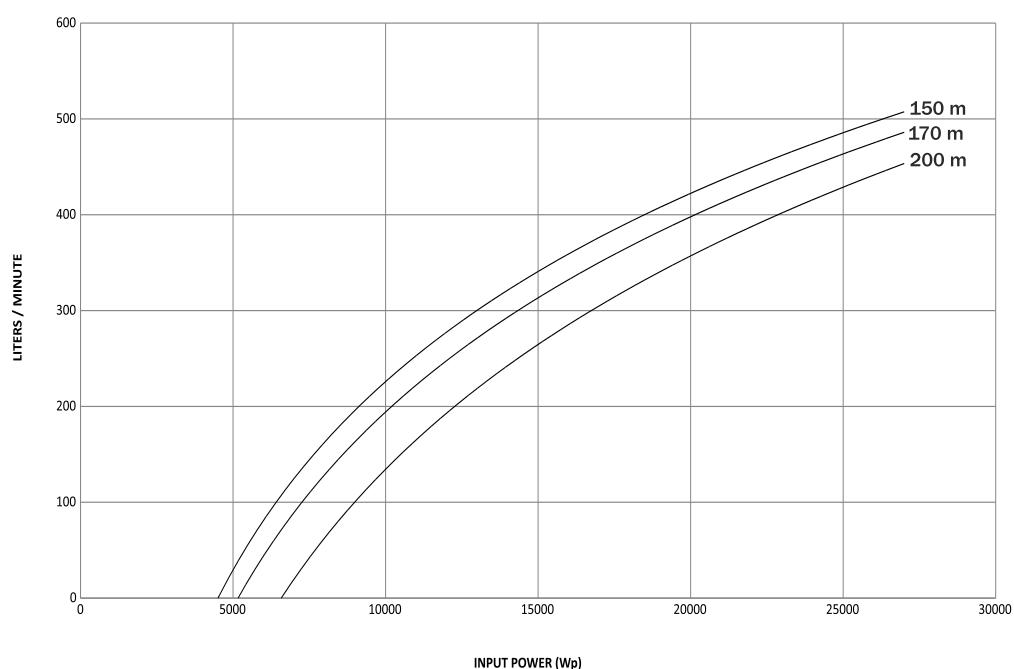


|          | INPUT POWER (Wp) |       |       |       |      |      |      |
|----------|------------------|-------|-------|-------|------|------|------|
|          | 27000            | 21550 | 16150 | 10700 | 9450 | 8000 | 7200 |
| HEAD (m) | FLOW IN LPM      |       |       |       |      |      |      |
| 150      | 730              | 575   | 390   | 50    | 0    | 0    | 0    |
| 128      | 815              | 680   | 495   | 230   | 125  | 0    | 0    |
| 112      | 875              | 750   | 580   | 335   | 220  | 135  | 0    |

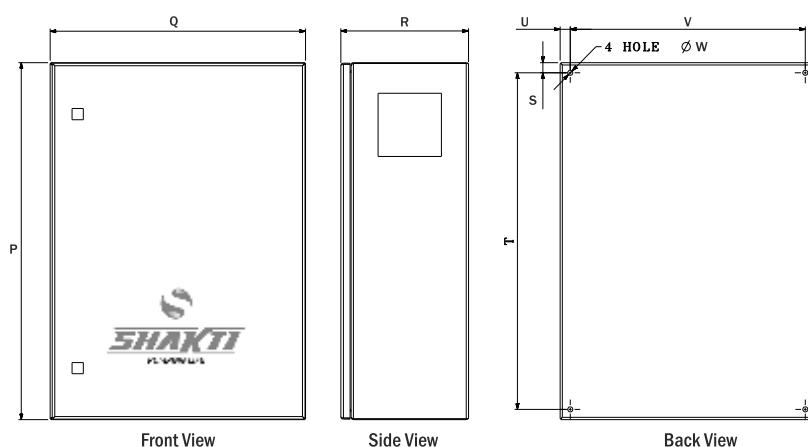


**SOLAR PUMPING SYSTEM**

**SOLAR 26 DCSSP 27000**  
**BSP 50 mm (6X6)**  
**PUMPSET CODE** 9500000777  
**DISCHARGE (LPD)** 202500  
**DISCHARGE (LPW)** 7.5  
**DUTY HEAD** 200 METER  
**CHOKE CODE** 9000023926

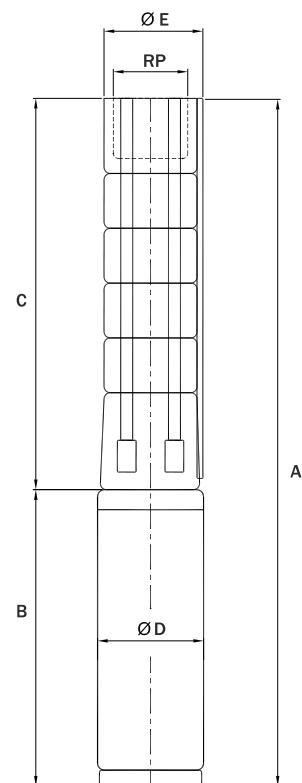
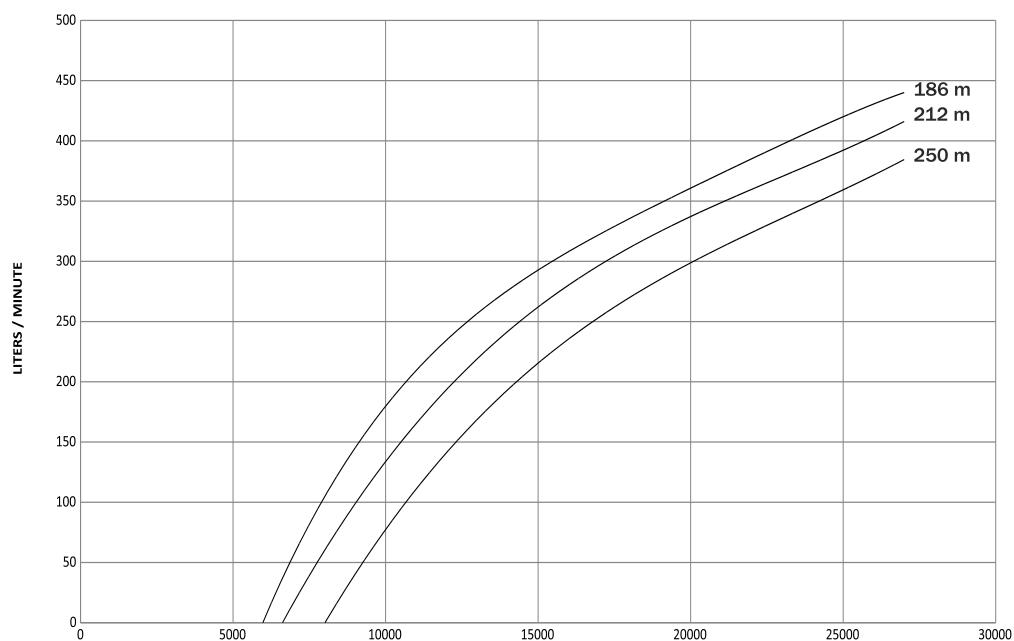


|          | INPUT POWER (Wp) |       |       |      |      |      |      |
|----------|------------------|-------|-------|------|------|------|------|
|          | 27000            | 20350 | 14100 | 9900 | 6750 | 5550 | 4750 |
| HEAD (m) | FLOW IN LPM      |       |       |      |      |      |      |
| 200      | 445              | 365   | 255   | 135  | 0    |      |      |
| 170      | 475              | 400   | 310   | 200  | 90   | 0    |      |
| 150      | 495              | 420   | 350   | 224  | 120  | 60   | 0    |

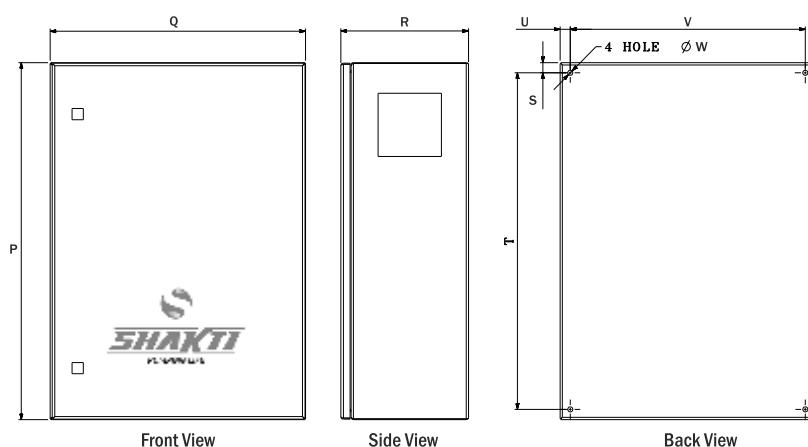


**SOLAR PUMPING SYSTEM**

**SOLAR 23 DCSSP 27000**  
**BSP 50 mm (6X6)**  
**PUMPSET CODE** 9500000861  
**DISCHARGE (LPD)** 162000  
**DISCHARGE (LPW)** 6  
**DUTY HEAD** 250 METER  
**CHOKE CODE** 9000025821

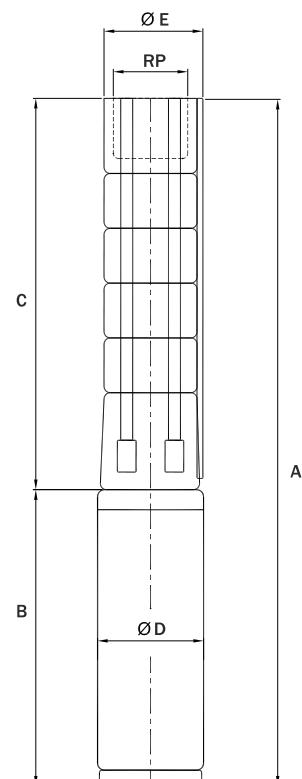
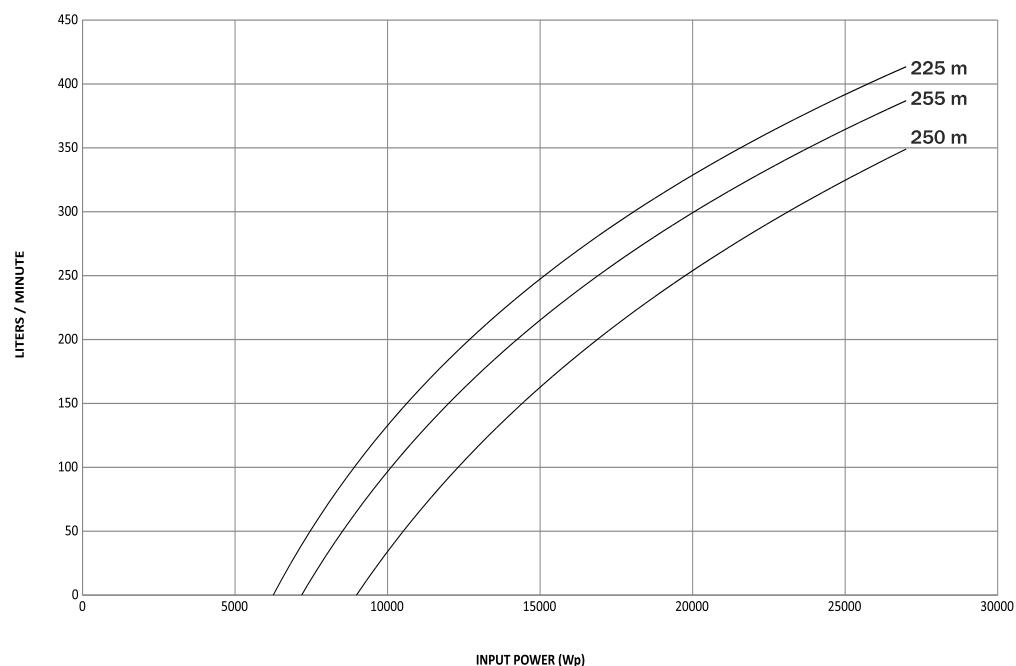


|          | INPUT POWER (Wp) |       |       |       |      |      |      |
|----------|------------------|-------|-------|-------|------|------|------|
|          | 27000            | 21600 | 16200 | 10750 | 8050 | 6500 | 6000 |
| HEAD (m) | FLOW IN LPM      |       |       |       |      |      |      |
| 250      | 384              | 321   | 236   | 106   | 0    | 0    | 0    |
| 212      | 416              | 356   | 281   | 166   | 50   | 0    | 0    |
| 186      | 440              | 381   | 309   | 207   | 100  | 35   | 0    |

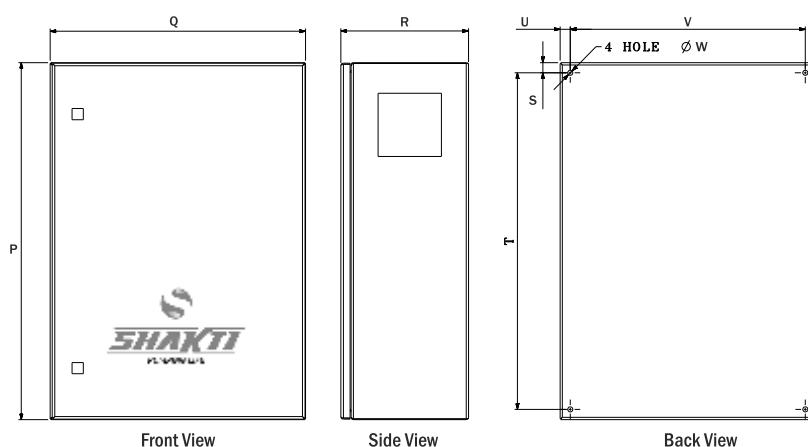


**SOLAR PUMPING SYSTEM**

**SOLAR 20 DCSSP 27000**  
**BSP 50 mm (6X6)**  
**PUMPSET CODE** 9500001721  
**DISCHARGE (LPD)** 121500  
**DISCHARGE (LPW)** 4.5  
**DUTY HEAD** 300 METER  
**CHOKE CODE** 9000023926

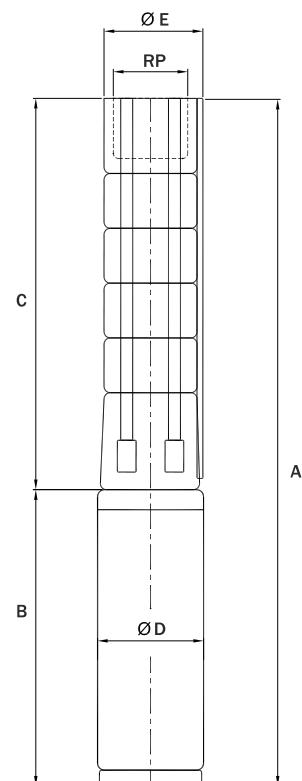
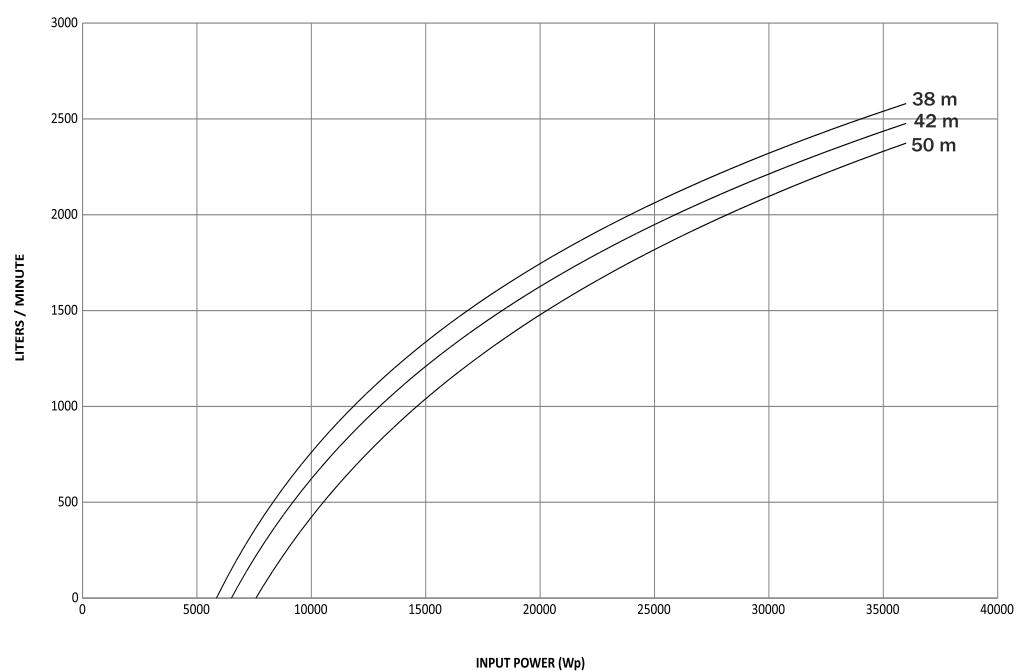


|          | INPUT POWER (Wp) |       |       |       |      |      |      |
|----------|------------------|-------|-------|-------|------|------|------|
|          | 27000            | 19250 | 15000 | 13400 | 9350 | 7400 | 6400 |
| HEAD (m) | FLOW IN LPM      |       |       |       |      |      |      |
| 300      | 343              | 240   | 165   | 145   | 0    |      |      |
| 255      | 382              | 280   | 235   | 181   | 80   | 0    |      |
| 225      | 401              | 317   | 264   | 220   | 120  | 40   | 0    |

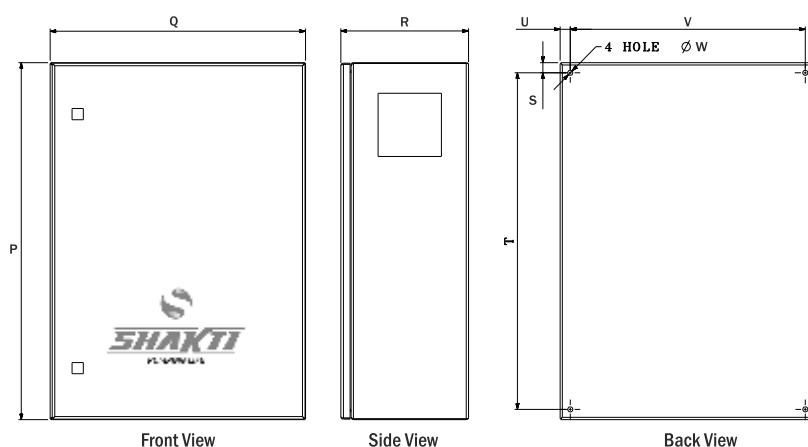


**SOLAR PUMPING SYSTEM**

**SOLAR 139 DCSSP 36000**  
**BSP 100 mm (8X8)**  
**PUMPSET CODE** 9500000670  
**DISCHARGE (LPD)** 1044000  
**DISCHARGE (LPW)** 29  
**DUTY HEAD** 50 METER

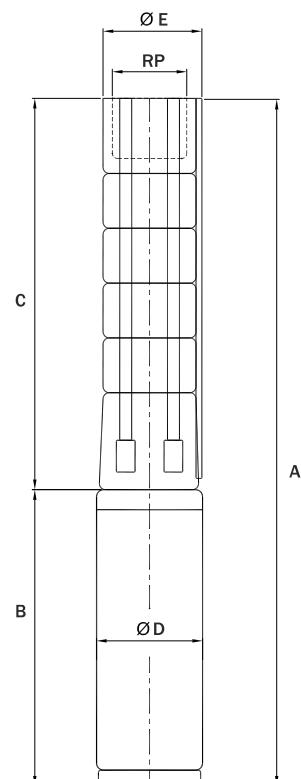
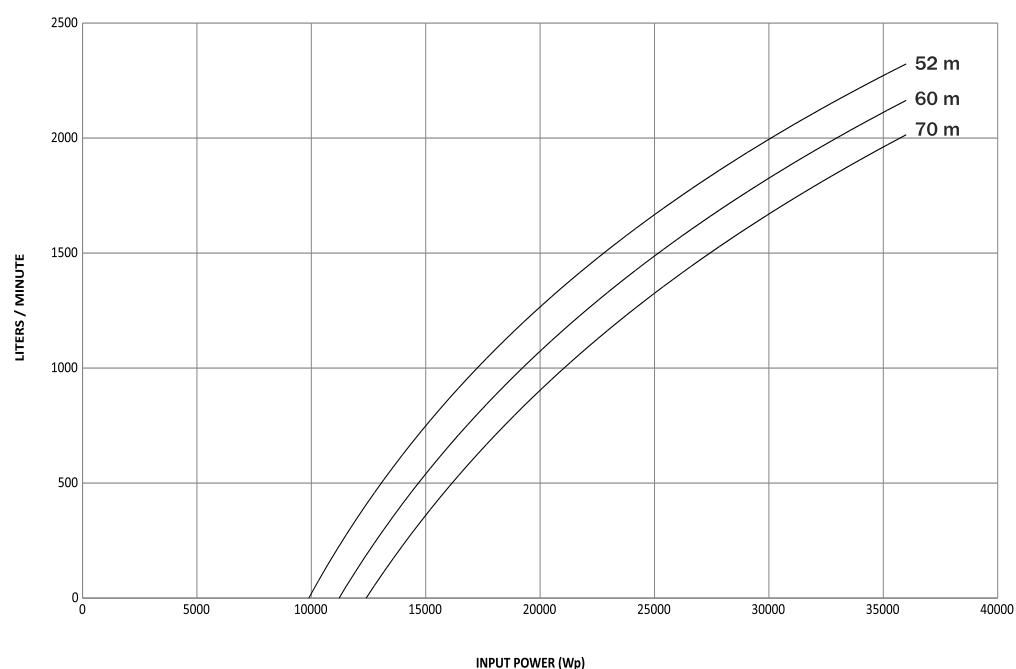


|          | INPUT POWER (Wp) |       |       |       |      |      |      |
|----------|------------------|-------|-------|-------|------|------|------|
|          | 36000            | 28000 | 17350 | 11550 | 7900 | 6600 | 6000 |
| HEAD (m) | FLOW IN LPM      |       |       |       |      |      |      |
| 50       | 2320             | 2010  | 1310  | 690   | 0    |      |      |
| 42       | 2455             | 2100  | 1450  | 885   | 250  | 0    |      |
| 38       | 2510             | 2240  | 1600  | 1020  | 450  | 120  | 0    |

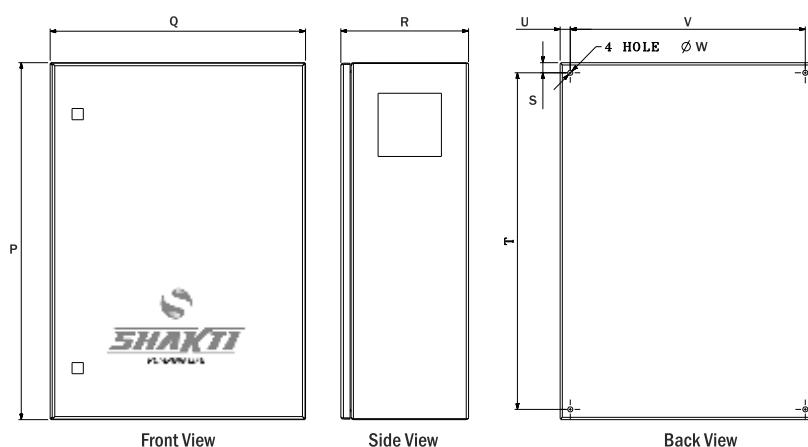


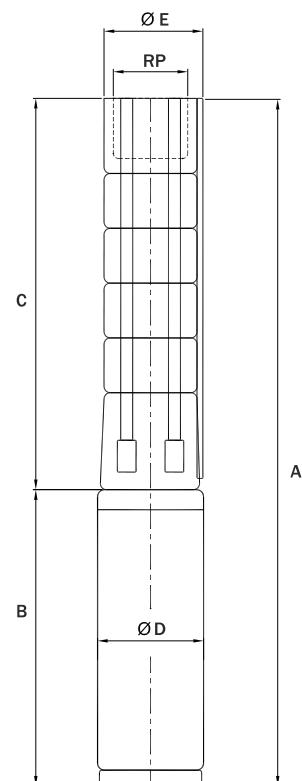
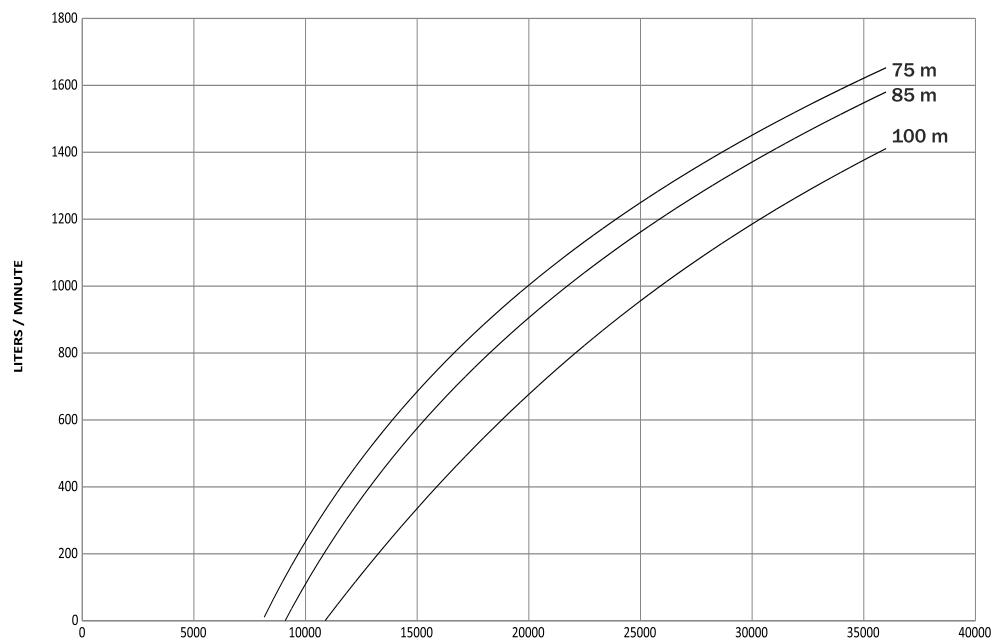
**SOLAR PUMPING SYSTEM**

**SOLAR 119 DCSSP 36000**  
**BSP 100 mm (8X8)**  
**PUMPSET CODE** 9500000664  
**DISCHARGE (LPD)** 720000  
**DISCHARGE (LPW)** 20  
**DUTY HEAD** 70 METER

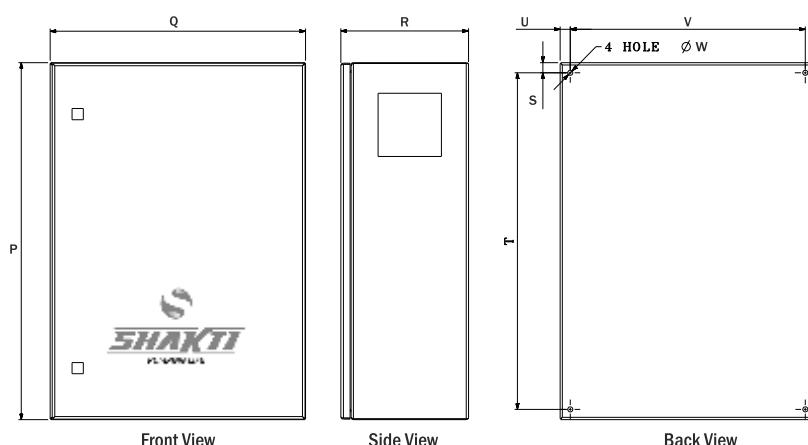


|          | INPUT POWER (Wp) |       |       |       |       |       |       |
|----------|------------------|-------|-------|-------|-------|-------|-------|
|          | 36000            | 33100 | 24050 | 17400 | 12650 | 11000 | 10000 |
| HEAD (m) | FLOW IN LPM      |       |       |       |       |       |       |
| 70       | 1990             | 1870  | 1240  | 700   | 0     |       |       |
| 60       | 2190             | 1950  | 1450  | 850   | 150   | 0     |       |
| 52       | 2310             | 2100  | 1700  | 1000  | 570   | 80    | 0     |



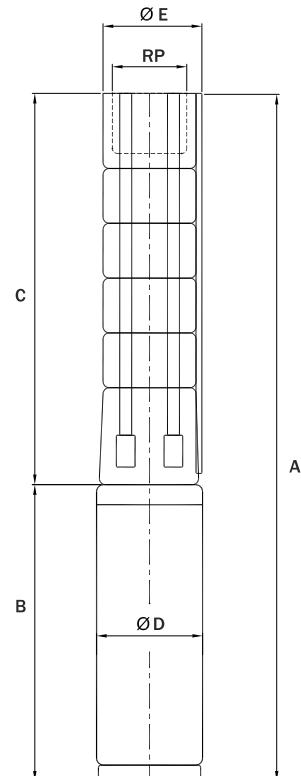
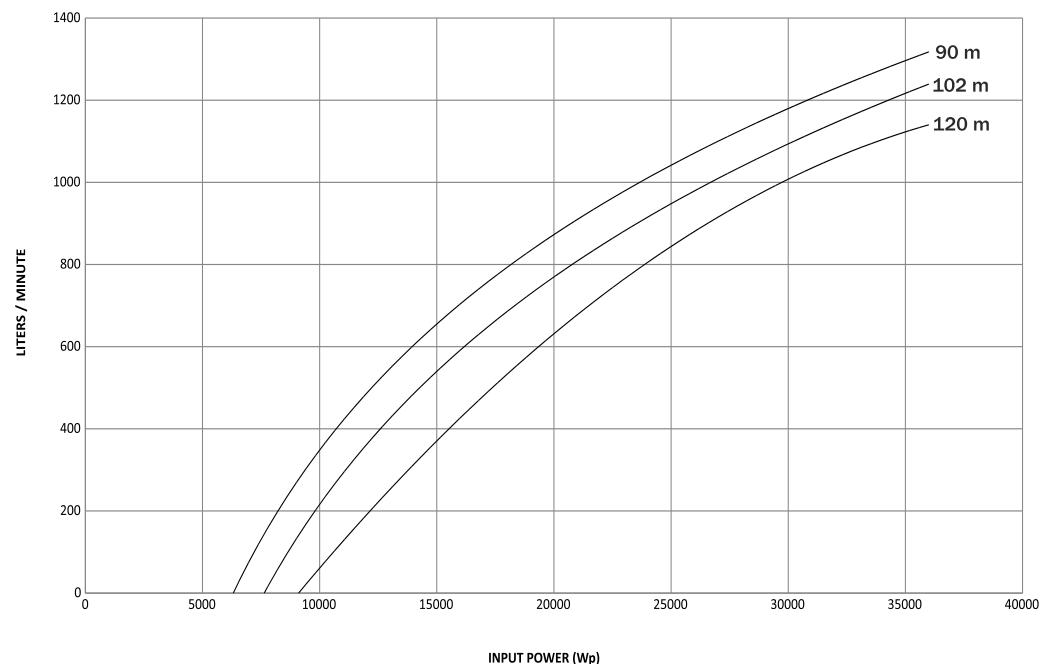
**SOLAR PUMPING SYSTEM**
**SOLAR 84 DCSSP 36000**
**BSP 100 mm (6X6)**
**PUMPSET CODE 9500000657**
**DISCHARGE (LPD) 540000**
**DISCHARGE (LPW) 15**
**DUTY HEAD 100 METER**
**CHOKE CODE 9000025819**


|          | INPUT POWER (Wp) |       |       |       |       |      |      |
|----------|------------------|-------|-------|-------|-------|------|------|
|          | 36000            | 28600 | 20600 | 17050 | 10900 | 9200 | 8500 |
| HEAD (m) | FLOW IN LPM      |       |       |       |       |      |      |
| 100      | 1410             | 1130  | 700   | 495   | 0     |      |      |
| 85       | 1540             | 1310  | 1000  | 750   | 180   | 0    |      |
| 75       | 1610             | 1380  | 1105  | 850   | 350   | 150  | 0    |

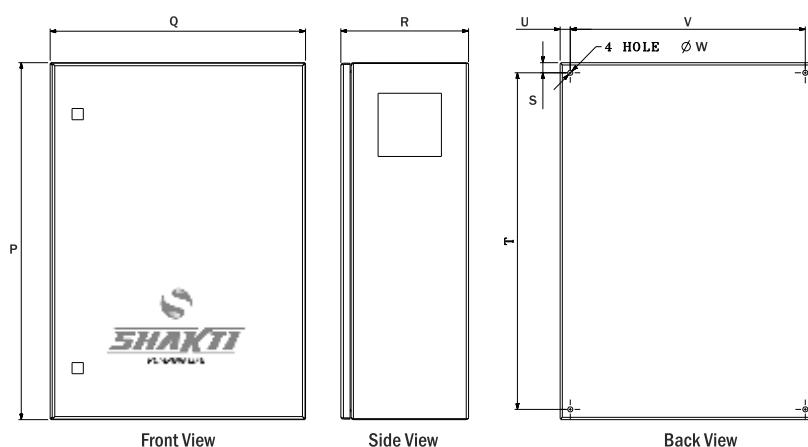

**CONTROLLER CODE : 9000023554**

**SOLAR PUMPING SYSTEM**

**SOLAR 69 DCSSP 36000**  
**BSP 75 mm (8X6)**  
**PUMPSET CODE** 9500000634  
**DISCHARGE (LPD)** 468000  
**DISCHARGE (LPW)** 13  
**DUTY HEAD** 120 METER  
**CHOKE CODE** 9000025820

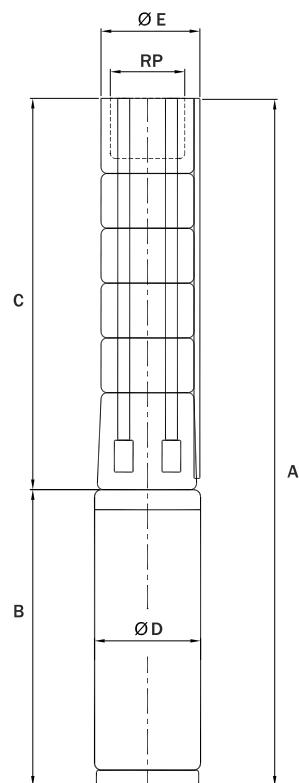
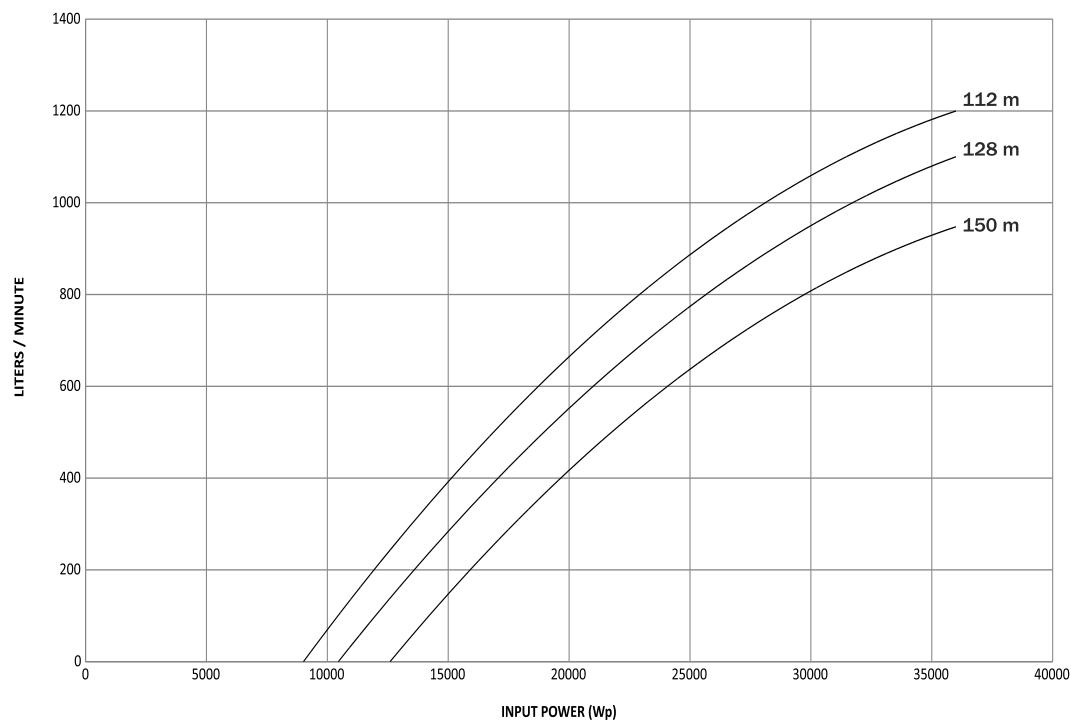


|          | INPUT POWER (Wp) |       |       |       |      |      |      |
|----------|------------------|-------|-------|-------|------|------|------|
|          | 36000            | 29550 | 23400 | 14250 | 9500 | 7500 | 6500 |
| HEAD (m) | FLOW IN LPM      |       |       |       |      |      |      |
| 120      | 1150             | 985   | 760   | 375   | 0    |      |      |
| 102      | 1235             | 1055  | 940   | 495   | 150  | 0    |      |
| 90       | 1300             | 1150  | 1025  | 630   | 320  | 130  | 0    |

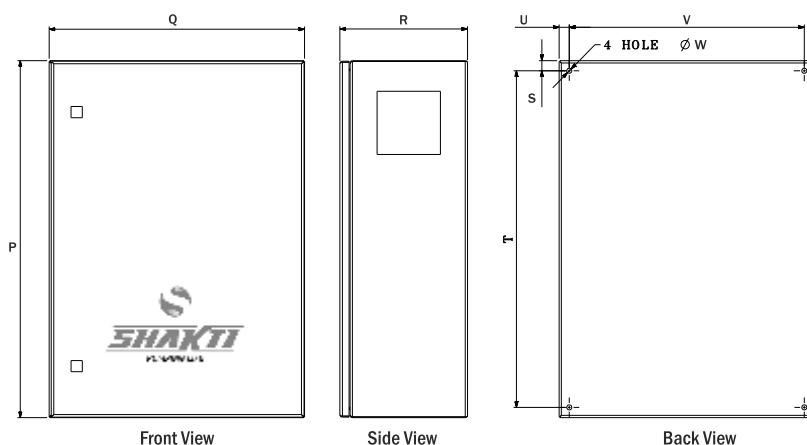


**SOLAR PUMPING SYSTEM**

**SOLAR 57 DCSSP 36000**  
**BSP 75 mm (8X6)**  
**PUMPSET CODE** 9500000458  
**DISCHARGE (LPD)** 342000  
**DISCHARGE (LPW)** 9.5  
**DUTY HEAD** 150 METER  
**CHOKE CODE** 9000025820



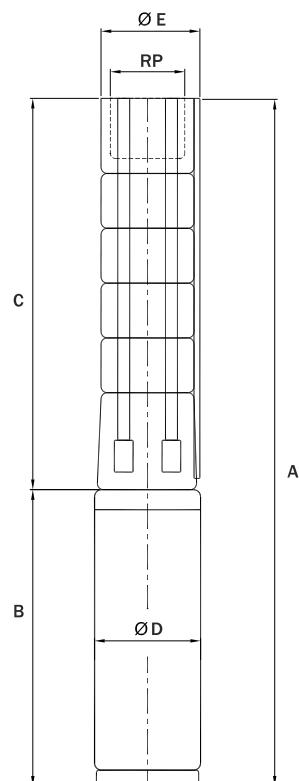
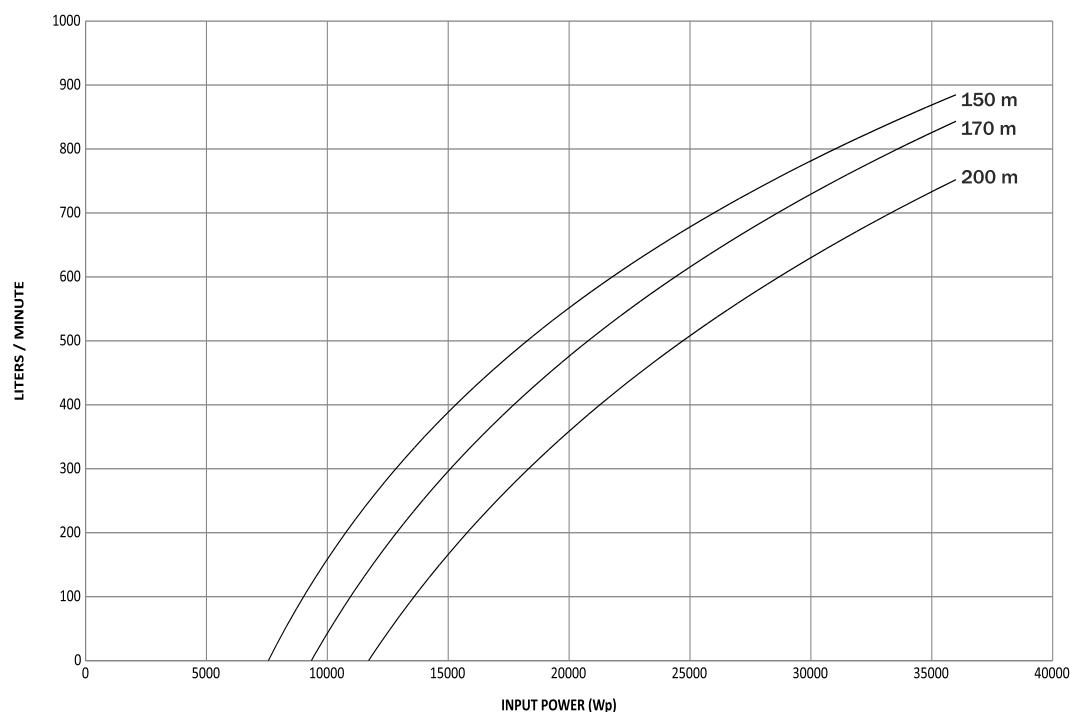
|          | INPUT POWER (Wp) |       |       |       |       |       |      |
|----------|------------------|-------|-------|-------|-------|-------|------|
|          | 36000            | 27400 | 21350 | 17400 | 12800 | 10600 | 9000 |
| HEAD (m) | FLOW IN LPM      |       |       |       |       |       |      |
| 150      | 955              | 700   | 495   | 300   | 0     |       |      |
| 128      | 1105             | 855   | 600   | 450   | 150   | 0     |      |
| 112      | 1195             | 1000  | 690   | 545   | 270   | 100   | 0    |



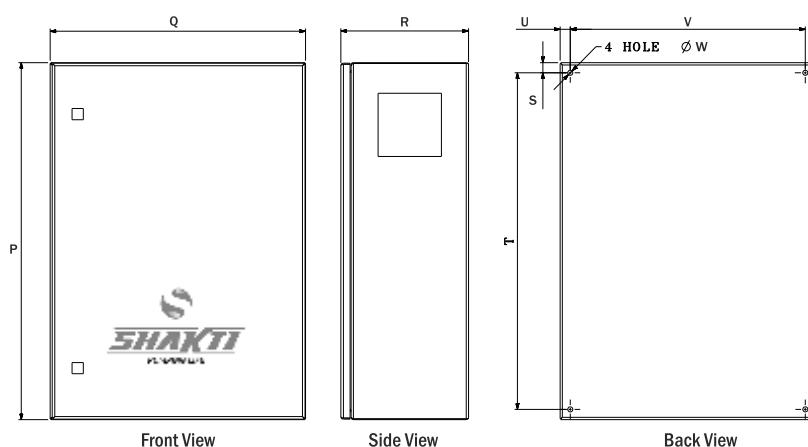
CONTROLLER CODE : 9000023554

**SOLAR PUMPING SYSTEM**

**SOLAR 44 DCSSP 36000**  
**BSP 75 mm (8X6)**  
**PUMPSET CODE** 9500001729  
**DISCHARGE (LPD)** 270000  
**DISCHARGE (LPW)** 7.5  
**DUTY HEAD** 200 METER  
**CHOKE CODE** 9000025820

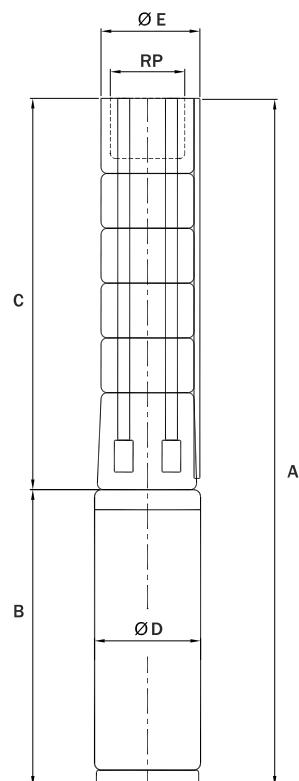
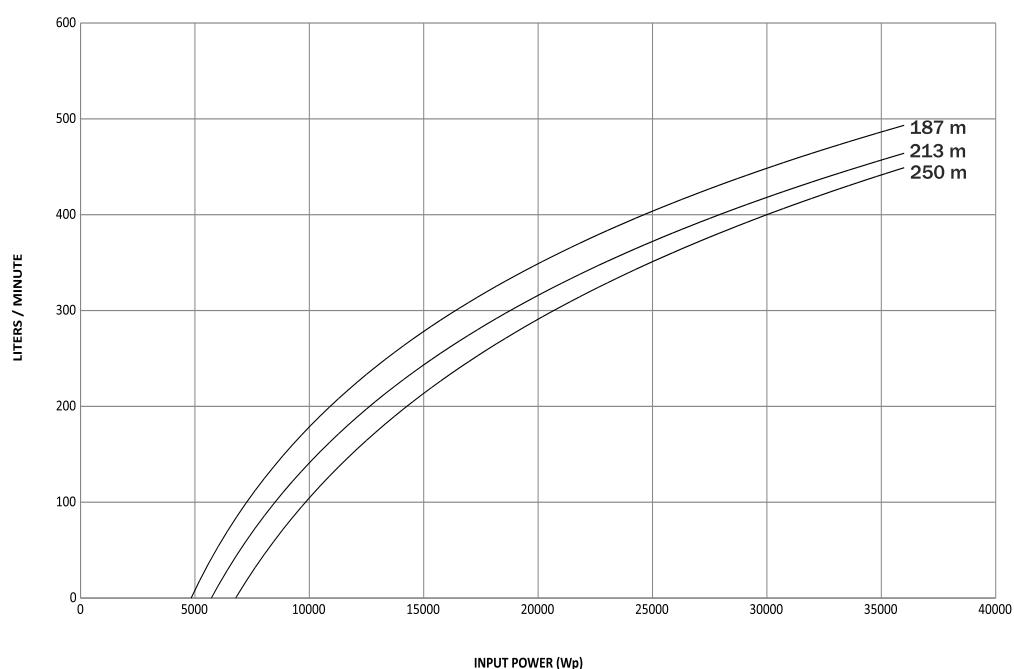


|          | INPUT POWER (Wp) |       |       |       |       |      |      |
|----------|------------------|-------|-------|-------|-------|------|------|
|          | 36000            | 26300 | 20850 | 14350 | 12100 | 9650 | 8100 |
| HEAD (m) | FLOW IN LPM      |       |       |       |       |      |      |
| 200      | 743              | 538   | 405   | 153   | 0     |      |      |
| 170      | 818              | 670   | 500   | 305   | 150   | 0    |      |
| 150      | 860              | 730   | 560   | 380   | 300   | 144  | 0    |

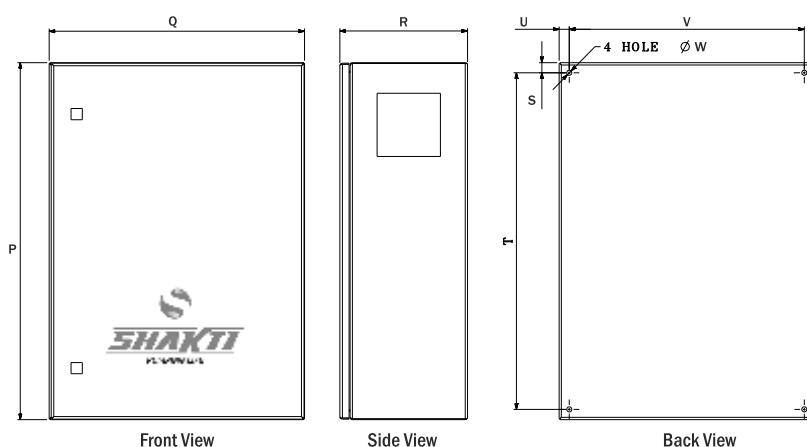


**SOLAR PUMPING SYSTEM**

**SOLAR 27 DCSSP 36000**  
**BSP 50 mm (8X6)**  
**PUMPSET CODE** 9500001356  
**DISCHARGE (LPD)** 194400  
**DISCHARGE (LPW)** 5.4  
**DUTY HEAD** 250 METER  
**CHOKE CODE** 9000025821



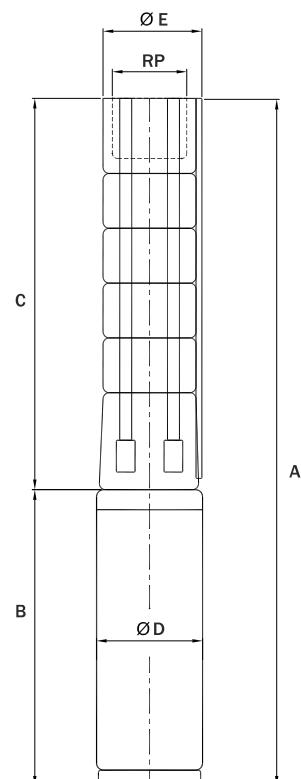
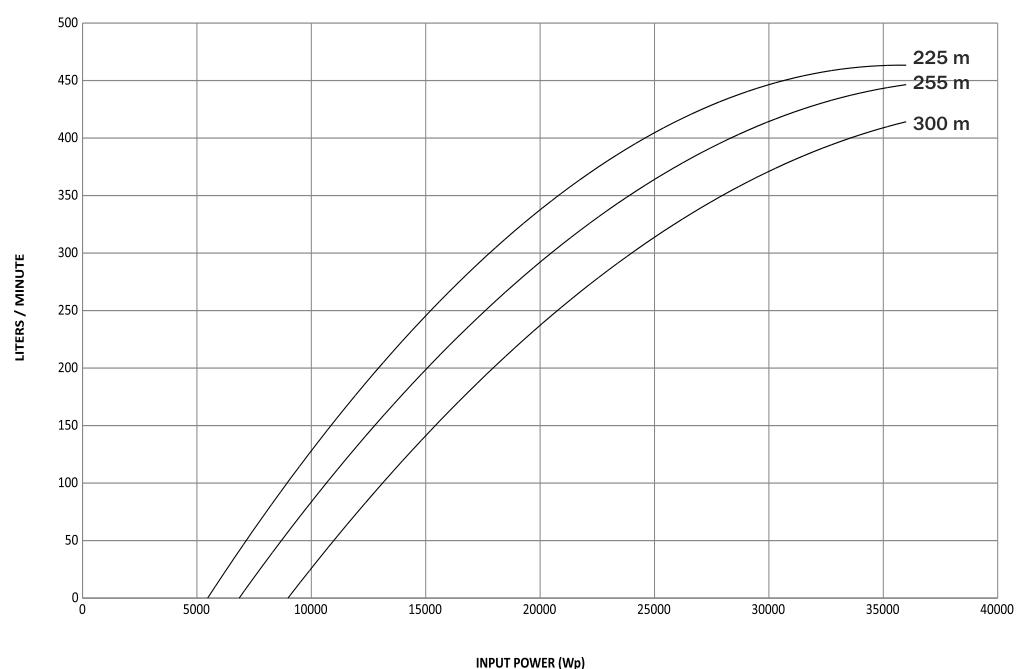
|          | INPUT POWER (Wp) |       |       |      |      |      |      |
|----------|------------------|-------|-------|------|------|------|------|
|          | 36000            | 31550 | 20400 | 9600 | 6900 | 5700 | 4850 |
| HEAD (m) | FLOW IN LPM      |       |       |      |      |      |      |
| 250      | 450              | 412   | 295   | 100  | 0    |      |      |
| 213      | 475              | 428   | 310   | 125  | 55   | 0    |      |
| 187      | 490              | 450   | 370   | 180  | 75   | 40   | 0    |



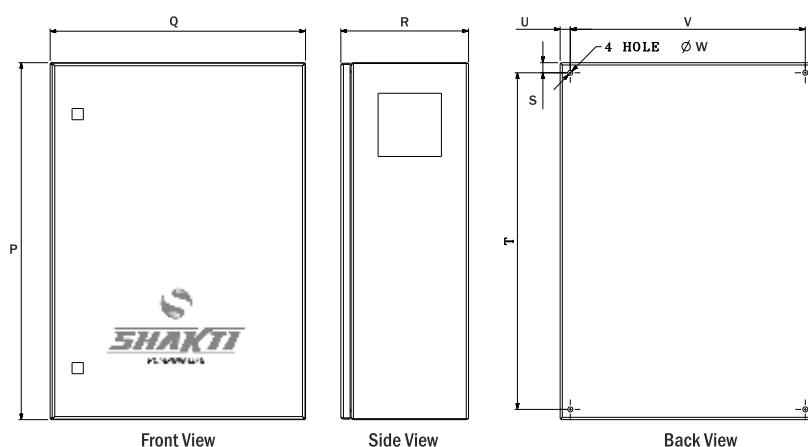
CONTROLLER CODE : 9000023554

**SOLAR PUMPING SYSTEM**

**SOLAR 25 DCSSP 36000**  
**BSP 50 mm (8X6)**  
**PUMPSET CODE** 9500000611  
**DISCHARGE (LPD)** 180000  
**DISCHARGE (LPW)** 5  
**DUTY HEAD** 300 METER  
**CHOKE CODE** 9000025821



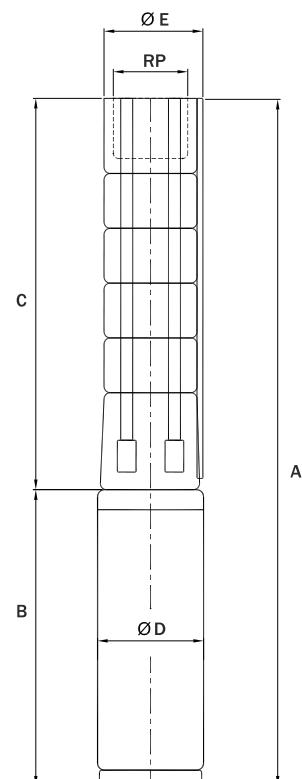
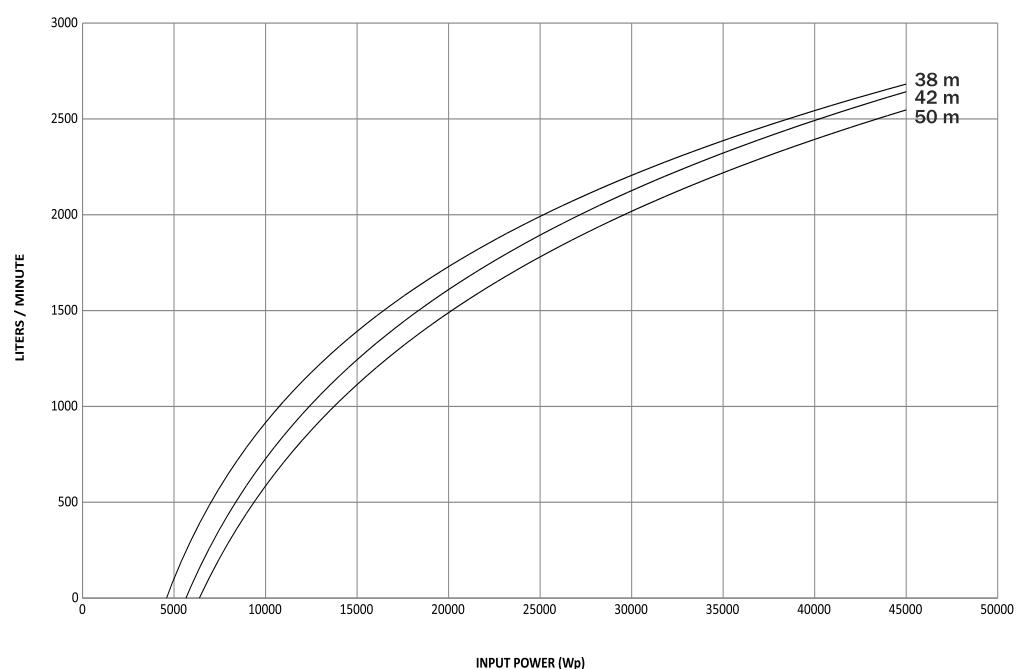
|          | INPUT POWER (Wp) |       |       |       |      |      |      |
|----------|------------------|-------|-------|-------|------|------|------|
|          | 36000            | 30050 | 25400 | 20850 | 9050 | 7200 | 6000 |
| HEAD (m) | FLOW IN LPM      |       |       |       |      |      |      |
| 300      | 418              | 365   | 315   | 260   | 0    |      |      |
| 255      | 450              | 410   | 365   | 310   | 70   | 0    |      |
| 225      | 465              | 450   | 400   | 350   | 120  | 55   | 0    |



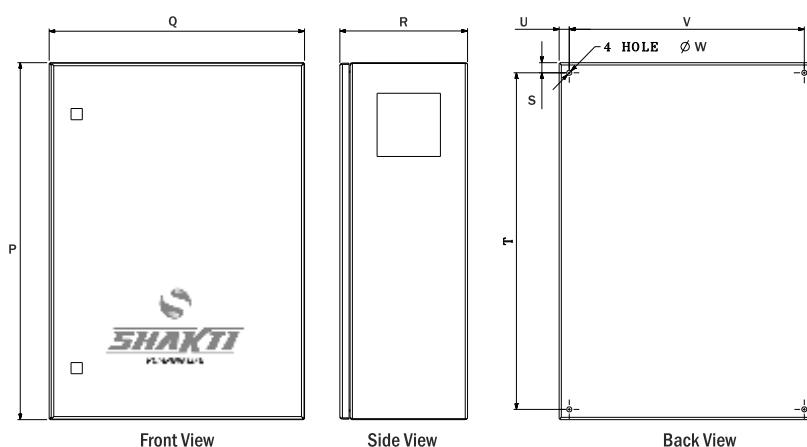
CONTROLLER CODE : 9000023554

**SOLAR PUMPING SYSTEM**

**SOLAR 150 DCSSP 45000**  
**BSP 100 mm (8X8)**  
**PUMPSET CODE** 9500001494  
**DISCHARGE (LPD)** 1282500  
**DISCHARGE (LPW)** 28.5  
**DUTY HEAD** 50 METER

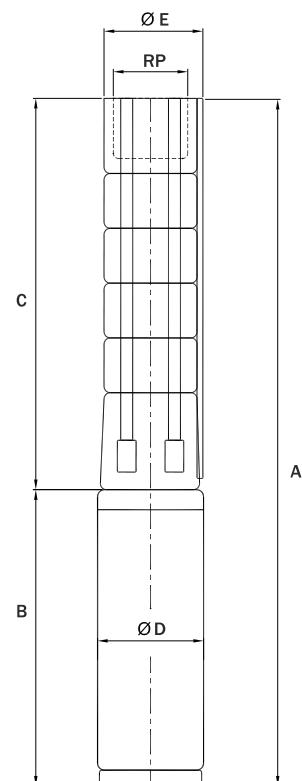
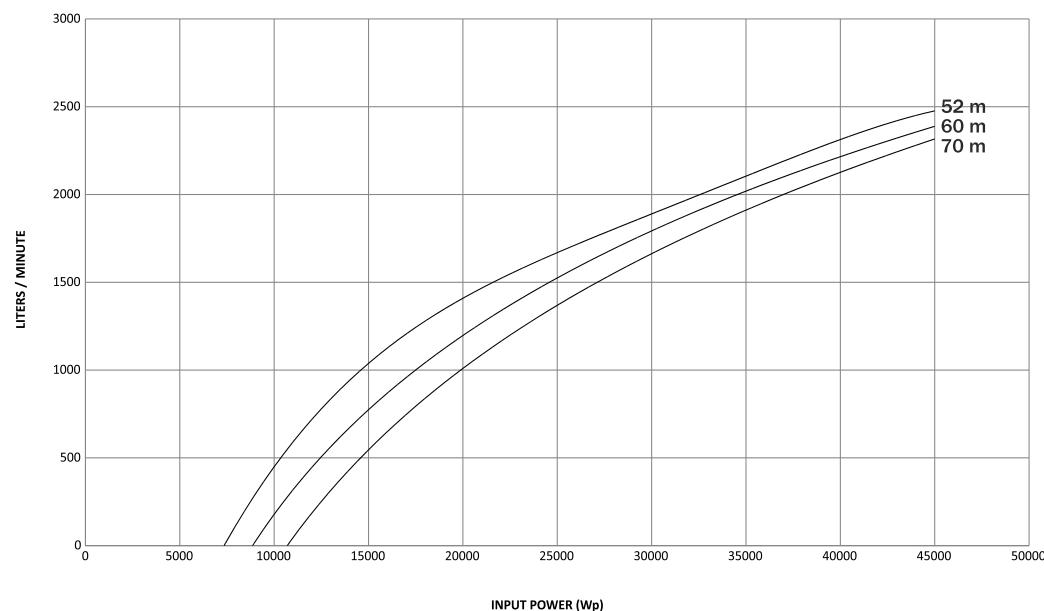


|          | INPUT POWER (Wp) |       |       |       |      |      |      |
|----------|------------------|-------|-------|-------|------|------|------|
|          | 45000            | 31450 | 18000 | 10350 | 6700 | 5450 | 4740 |
| HEAD (m) | FLOW IN LPM      |       |       |       |      |      |      |
| 50       | 2500             | 2080  | 1425  | 665   | 0    |      |      |
| 42       | 2575             | 2200  | 1600  | 750   | 120  | 0    |      |
| 38       | 2600             | 2300  | 1700  | 950   | 390  | 250  | 0    |

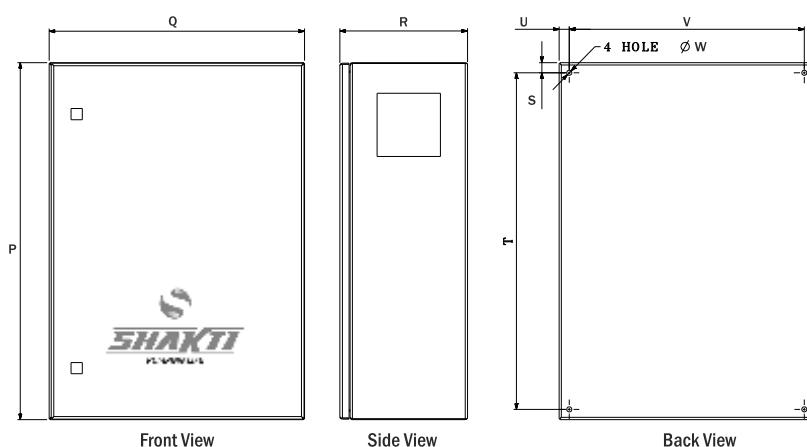


**SOLAR PUMPING SYSTEM**

**SOLAR 135 DCSSP 45000**  
**BSP 100 mm (8X8)**  
**PUMPSET CODE** 9500000962  
**DISCHARGE (LPD)** 990000  
**DISCHARGE (LPW)** 22  
**DUTY HEAD** 70 METER

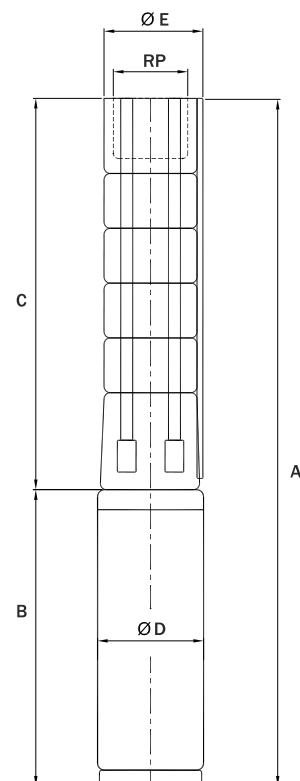
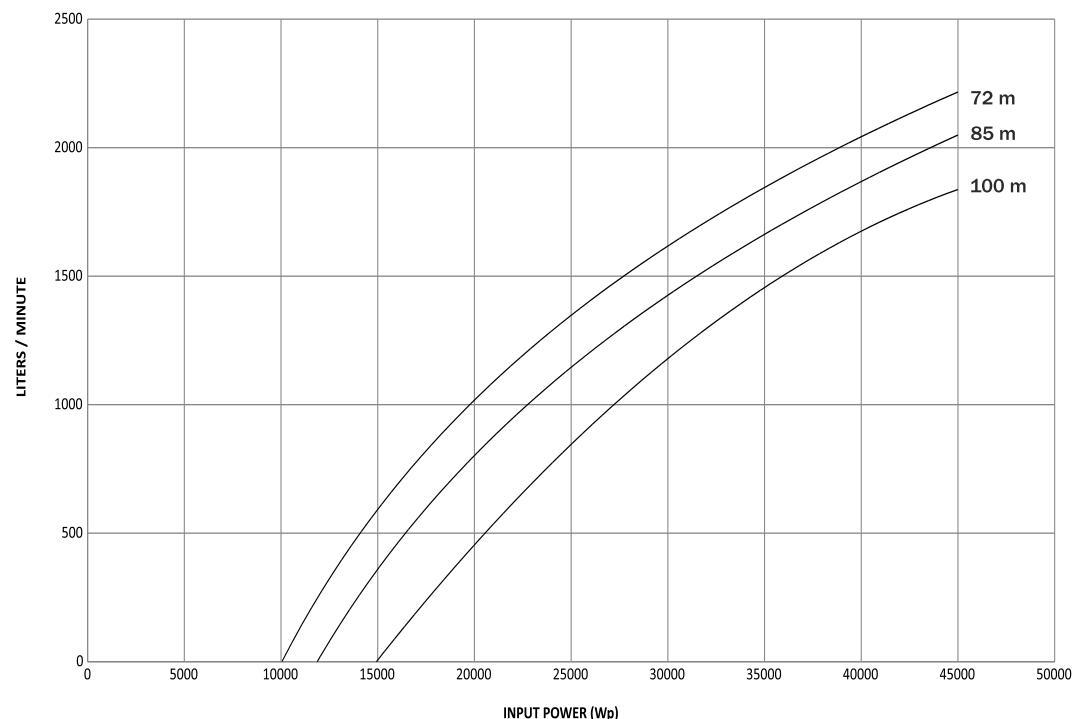


|          | INPUT POWER (Wp) |       |       |       |       |      |      |
|----------|------------------|-------|-------|-------|-------|------|------|
|          | 45000            | 35950 | 27000 | 13500 | 11250 | 9200 | 7250 |
| HEAD (m) | FLOW IN LPM      |       |       |       |       |      |      |
| 70       | 2260             | 1960  | 1560  | 440   | 0     |      |      |
| 60       | 2370             | 2050  | 1650  | 690   | 350   | 0    |      |
| 52       | 2475             | 2150  | 1750  | 925   | 600   | 300  | 0    |

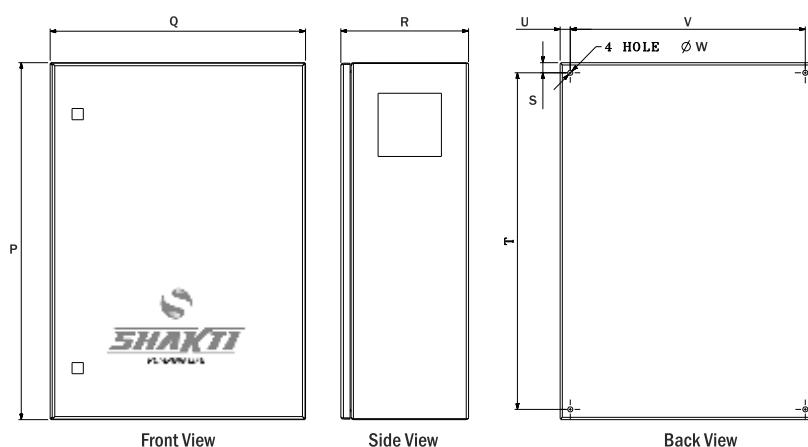


**SOLAR PUMPING SYSTEM**

**SOLAR 110 DCSSP 45000**  
**BSP 100 mm (8X8)**  
**PUMPSET CODE** 9500000959  
**DISCHARGE (LPD)** 675000  
**DISCHARGE (LPW)** 15  
**DUTY HEAD** 100 METER  
**CHOKE CODE** 9000025819

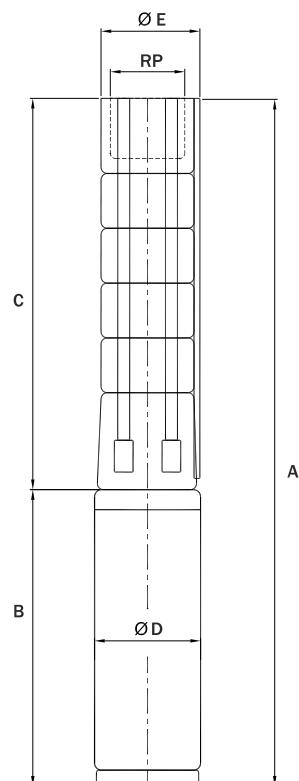
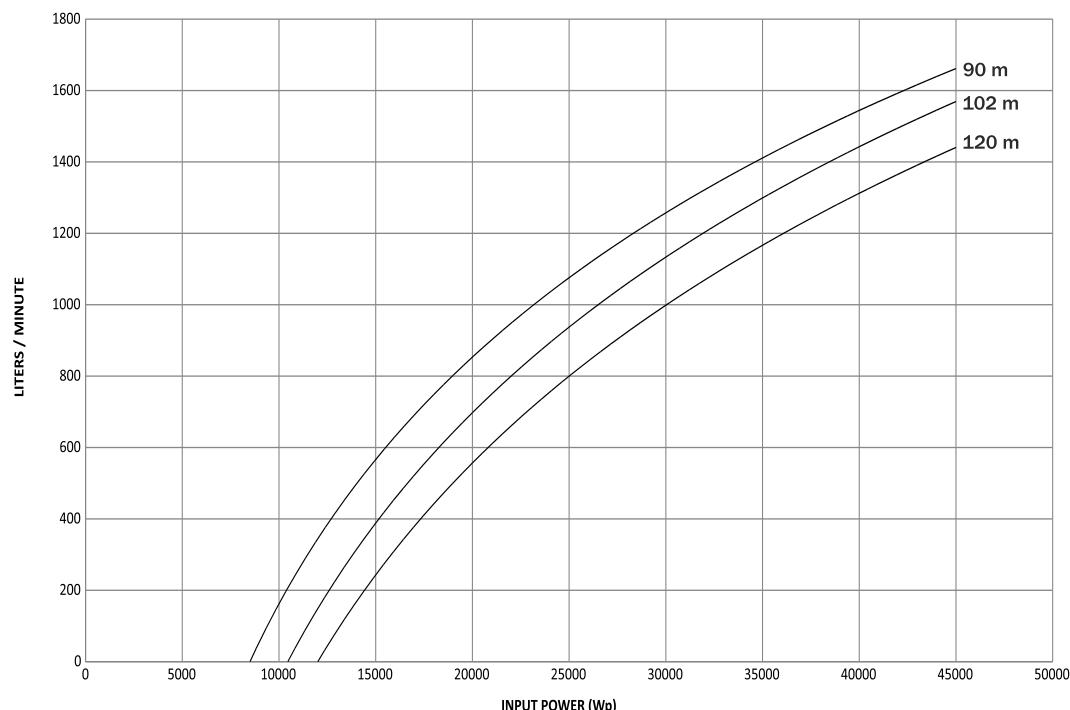


|          | INPUT POWER (Wp) |       |       |       |       |       |       |
|----------|------------------|-------|-------|-------|-------|-------|-------|
|          | 45000            | 36300 | 22000 | 16600 | 15000 | 12500 | 10600 |
| HEAD (m) | FLOW IN LPM      |       |       |       |       |       |       |
| 100      | 1845             | 1500  | 640   | 150   | 0     |       |       |
| 85       | 2020             | 1750  | 900   | 600   | 400   | 0     |       |
| 72       | 2180             | 1900  | 1200  | 750   | 630   | 350   | 0     |

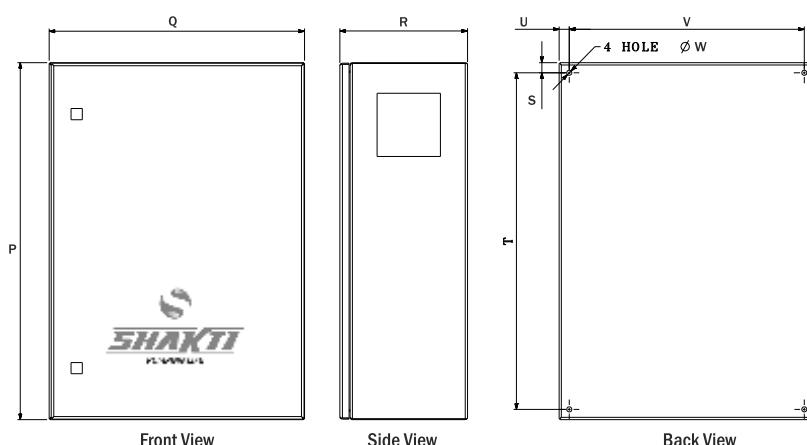


**SOLAR PUMPING SYSTEM**

**SOLAR 87 DCSSP 45000**  
**BSP 100 mm (8X6)**  
**PUMPSET CODE** 9500000953  
**DISCHARGE (LPD)** 585000  
**DISCHARGE (LPW)** 13  
**DUTY HEAD** 120 METER  
**CHOKE CODE** 9000025820

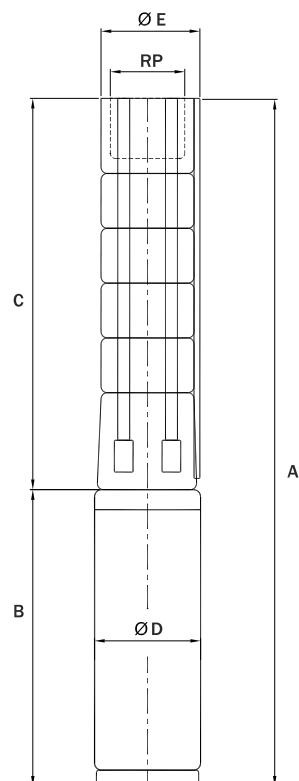
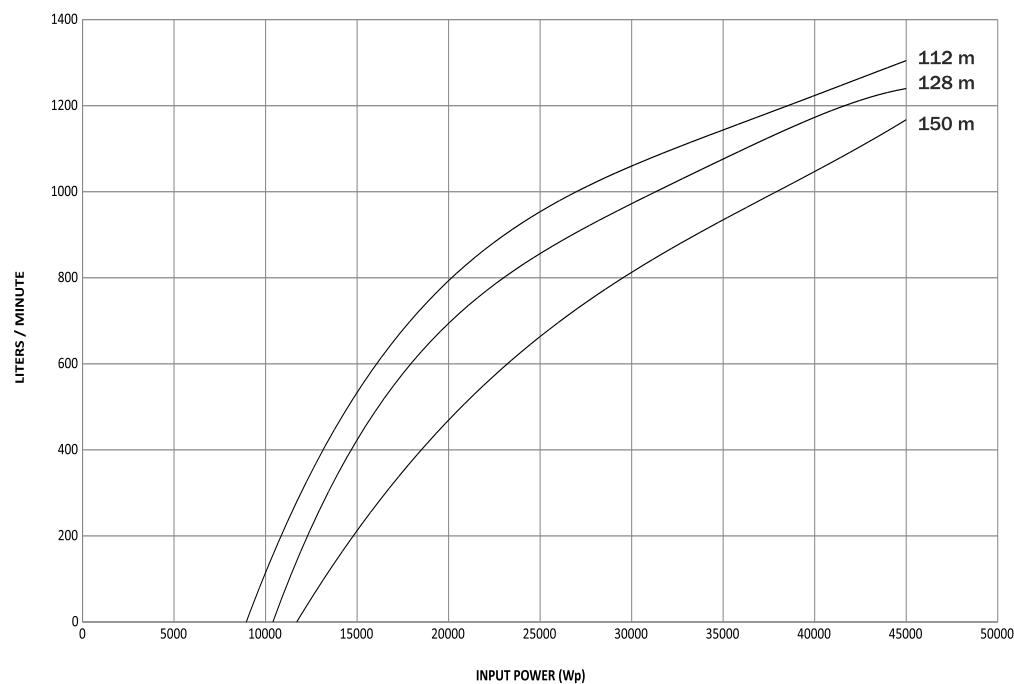


|          | INPUT POWER (Wp) |       |       |       |       |       |      |
|----------|------------------|-------|-------|-------|-------|-------|------|
|          | 45000            | 35950 | 22450 | 18000 | 11700 | 10000 | 7800 |
| HEAD (m) | FLOW IN LPM      |       |       |       |       |       |      |
| 120      | 1452             | 1205  | 660   | 415   | 0     |       |      |
| 102      | 1580             | 1395  | 750   | 500   | 150   | 0     |      |
| 90       | 1645             | 1465  | 1030  | 700   | 250   | 120   | 0    |

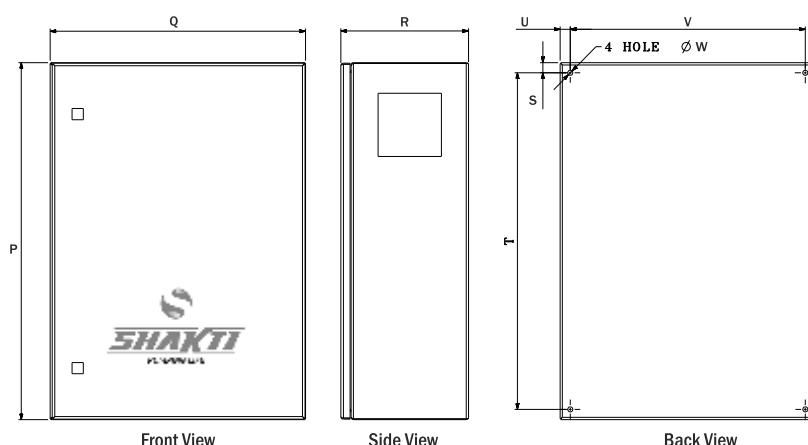


**SOLAR PUMPING SYSTEM**

**SOLAR 70 DCSSP 45000**  
**BSP 75 mm (8X6)**  
**PUMPSET CODE** 9500001722  
**DISCHARGE (LPD)** 472500  
**DISCHARGE (LPW)** 10.5  
**DUTY HEAD** 150 METER  
**CHOKE CODE** 9000025820

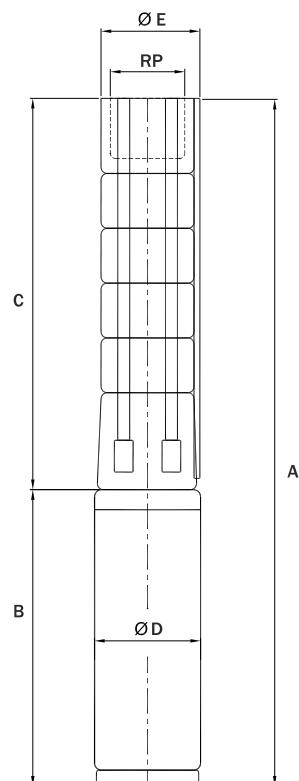
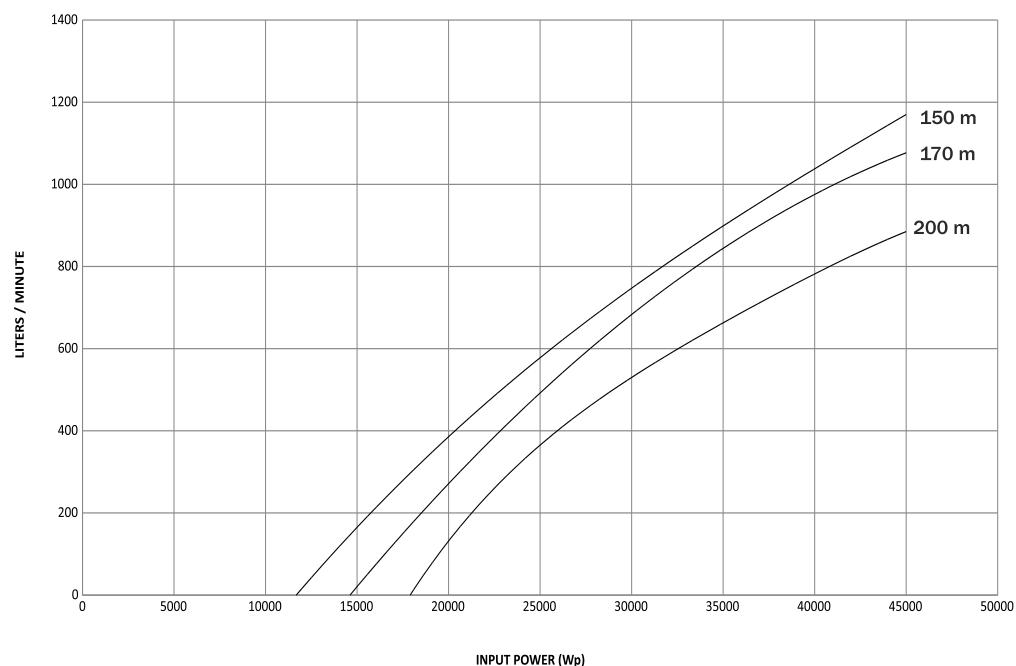


|          | INPUT POWER (Wp) |       |       |       |       |       |      |
|----------|------------------|-------|-------|-------|-------|-------|------|
|          | 45000            | 35000 | 24250 | 16650 | 11850 | 10500 | 9000 |
| HEAD (m) | FLOW IN LPM      |       |       |       |       |       |      |
| 150      | 1165             | 945   | 615   | 330   | 0     |       |      |
| 128      | 1240             | 1075  | 840   | 520   | 175   | 0     |      |
| 112      | 1305             | 1142  | 940   | 620   | 308   | 165   | 0    |

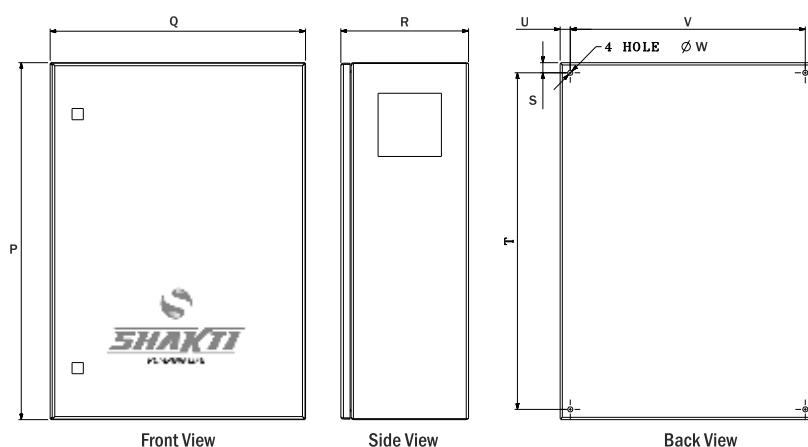


**SOLAR PUMPING SYSTEM**

**SOLAR 53 DCSSP 45000**  
**BSP 75 mm (8X6)**  
**PUMPSET CODE** 9500000935  
**DISCHARGE (LPD)** 310500  
**DISCHARGE (LPW)** 6.9  
**DUTY HEAD** 200 METER  
**CHOKE CODE** 9000025820



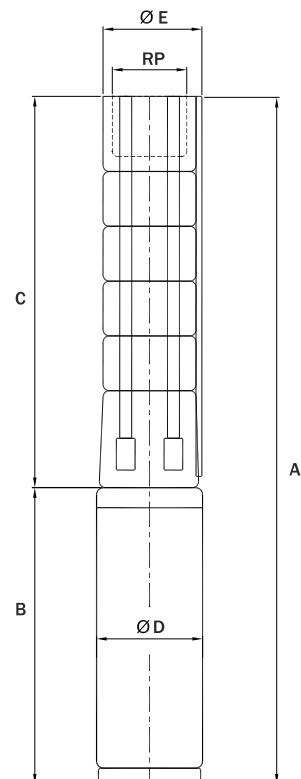
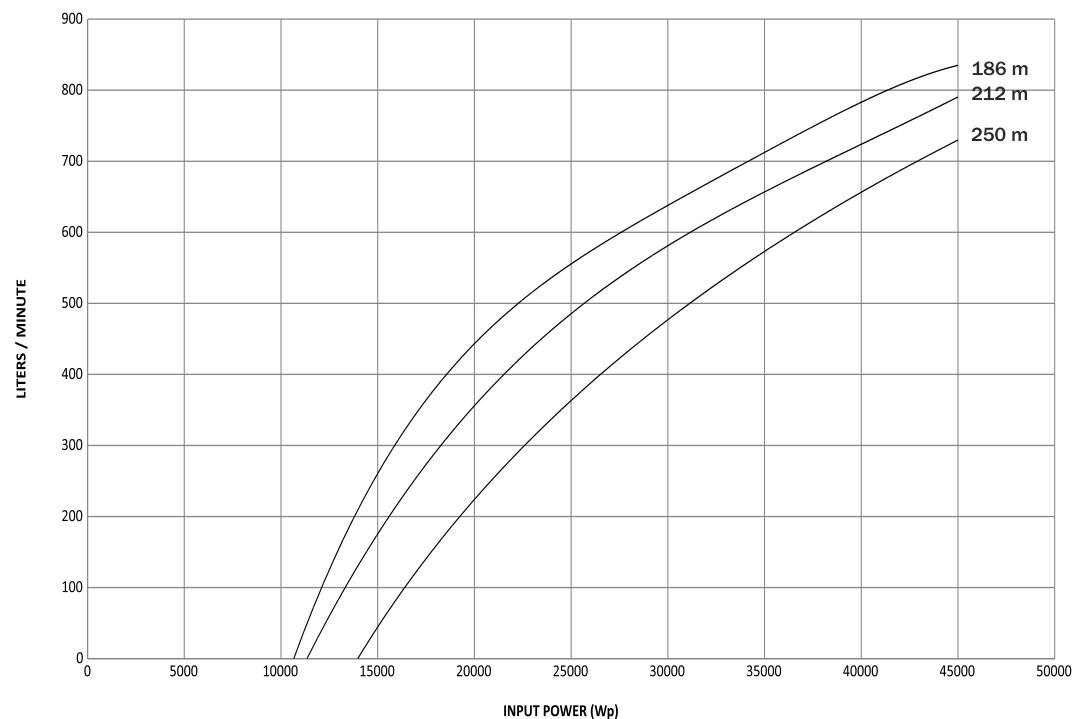
|          | INPUT POWER (Wp) |       |       |       |       |       |       |
|----------|------------------|-------|-------|-------|-------|-------|-------|
|          | 45000            | 35900 | 26950 | 22500 | 17900 | 14400 | 11850 |
| HEAD (m) | FLOW IN LPM      |       |       |       |       |       |       |
| 200      | 885              | 685   | 435   | 260   | 0     |       |       |
| 170      | 1070             | 890   | 545   | 405   | 150   | 0     |       |
| 150      | 1165             | 945   | 615   | 480   | 330   | 132   | 0     |



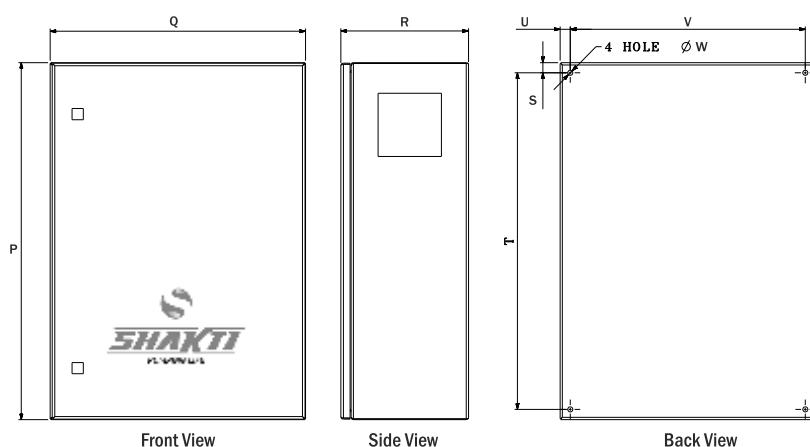
CONTROLLER CODE : 9000021164

**SOLAR PUMPING SYSTEM**

**SOLAR 42 DCSSP 45000**  
**BSP 75 mm (8X6)**  
**PUMPSET CODE** 9500001724  
**DISCHARGE (LPD)** 301500  
**DISCHARGE (LPW)** 6.7  
**DUTY HEAD** 250 METER  
**CHOKE CODE** 9000025821



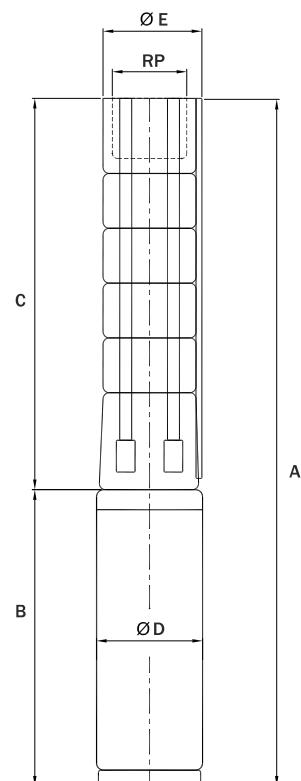
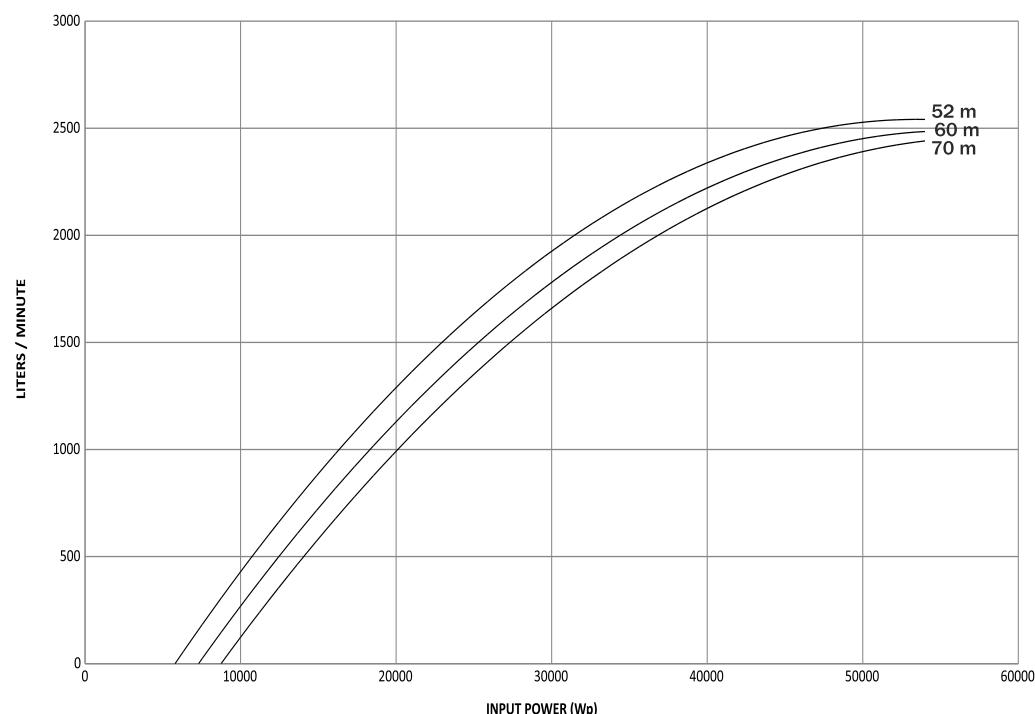
|          | INPUT POWER (Wp) |       |       |       |       |       |       |
|----------|------------------|-------|-------|-------|-------|-------|-------|
|          | 45000            | 35950 | 26950 | 17950 | 14850 | 11250 | 11000 |
| HEAD (m) | FLOW IN LPM      |       |       |       |       |       |       |
| 250      | 715              | 590   | 425   | 194   | 0     |       |       |
| 212      | 790              | 672   | 520   | 307   | 150   | 0     |       |
| 186      | 835              | 726   | 590   | 380   | 250   | 70    | 0     |



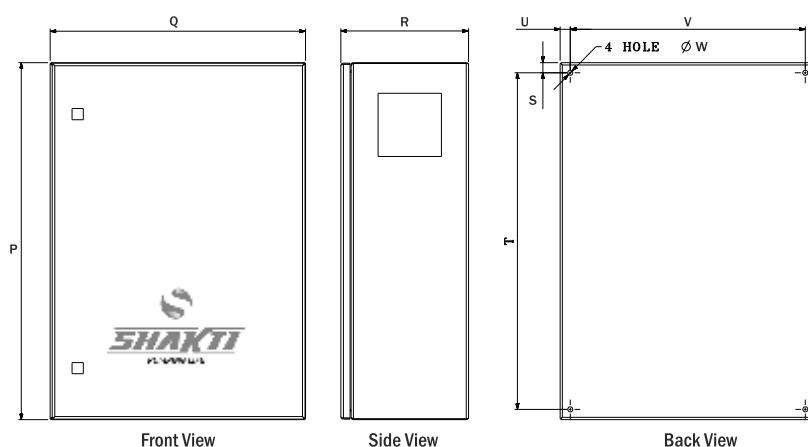
CONTROLLER CODE : 9000021164

**SOLAR PUMPING SYSTEM**

**SOLAR 148 DCSSP 54000**  
**BSP 100 mm (8X8)**  
**PUMPSET CODE** 9500000827  
**DISCHARGE (LPD)** 1134000  
**DISCHARGE (LPW)** 21  
**DUTY HEAD** 70 METER

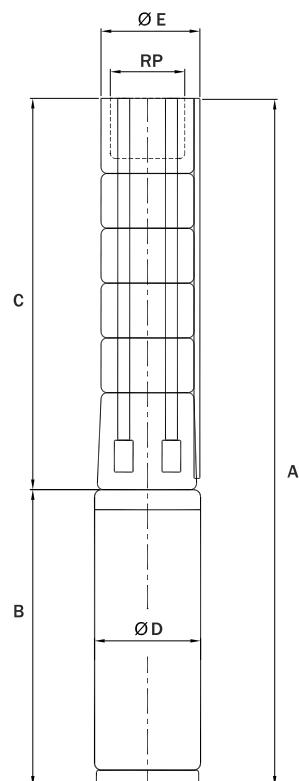
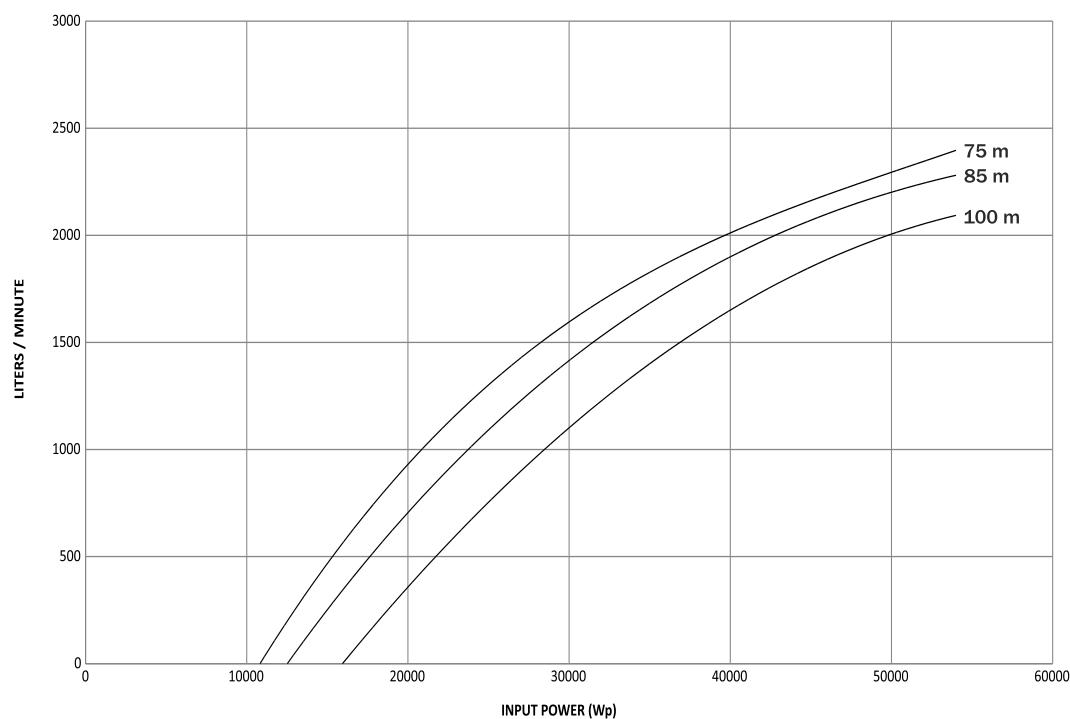


|          | INPUT POWER (Wp) |       |       |       |      |      |      |
|----------|------------------|-------|-------|-------|------|------|------|
|          | 54000            | 42100 | 32050 | 12150 | 9700 | 8000 | 6000 |
| HEAD (m) | FLOW IN LPM      |       |       |       |      |      |      |
| 70       | 2465             | 2140  | 1795  | 430   | 0    |      |      |
| 60       | 2520             | 2200  | 1930  | 540   | 250  | 0    |      |
| 52       | 2560             | 2360  | 2030  | 700   | 400  | 200  | 0    |

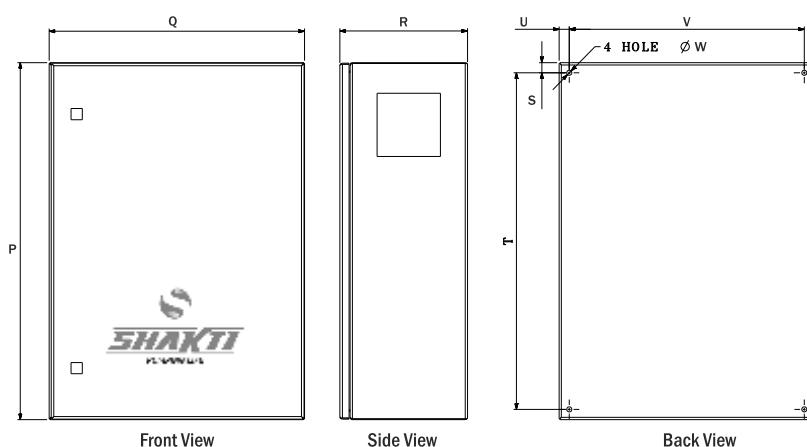


**SOLAR PUMPING SYSTEM**

**SOLAR 126 DCSSP 54000**  
**BSP 100 mm (8X8)**  
**PUMPSET CODE** 9500000836  
**DISCHARGE (LPD)** 864000  
**DISCHARGE (LPW)** 16  
**DUTY HEAD** 100 METER  
**CHOKE CODE** 9000025819

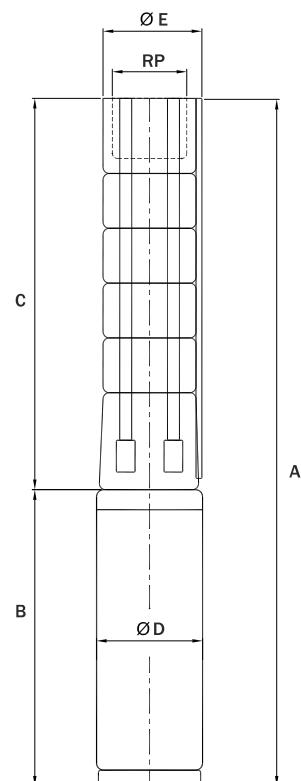
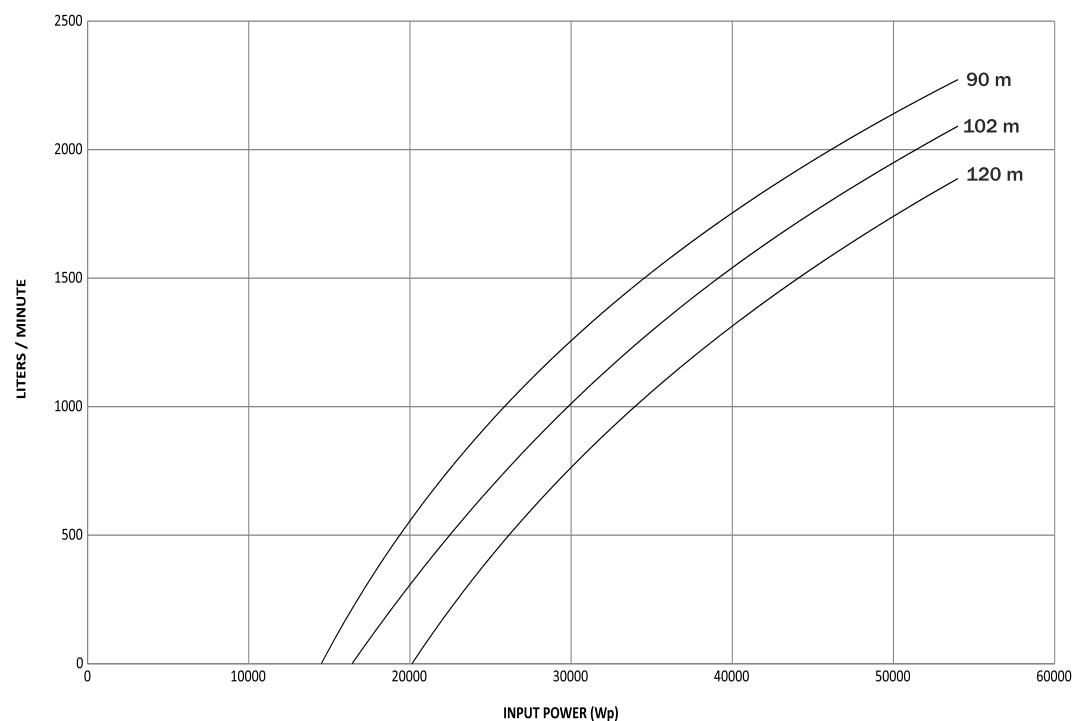


|          | INPUT POWER (Wp) |       |       |       |       |       |       |
|----------|------------------|-------|-------|-------|-------|-------|-------|
|          | 54000            | 43200 | 32350 | 21600 | 16100 | 12000 | 11000 |
| HEAD (m) | FLOW IN LPM      |       |       |       |       |       |       |
| 100      | 2100             | 1770  | 1250  | 510   | 0     |       |       |
| 85       | 2290             | 1980  | 1580  | 880   | 250   | 0     |       |
| 75       | 2400             | 2100  | 1715  | 1100  | 500   | 200   | 0     |

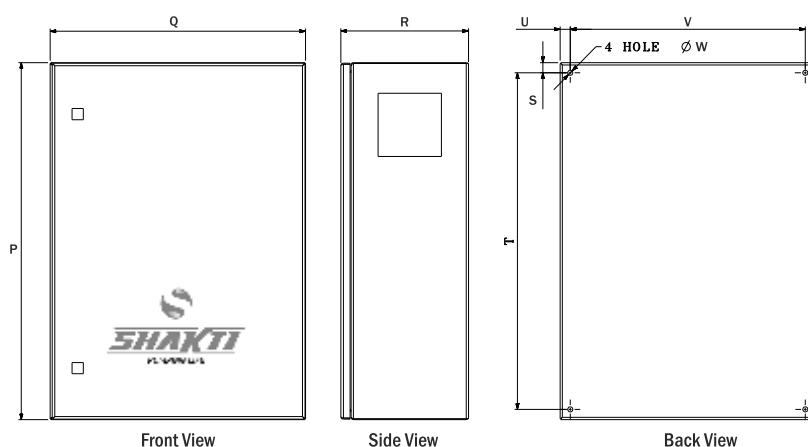


**SOLAR PUMPING SYSTEM**

**SOLAR 113 DCSSP 54000**  
**BSP 100 mm (8X8)**  
**PUMPSET CODE** 9500000892  
**DISCHARGE (LPD)** 594000  
**DISCHARGE (LPW)** 11  
**DUTY HEAD** 120 METER  
**CHOKE CODE** 9000025820



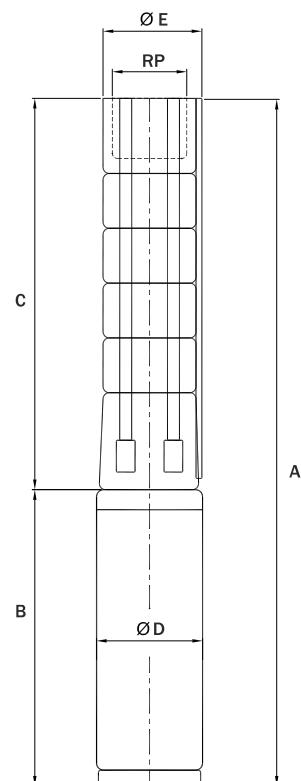
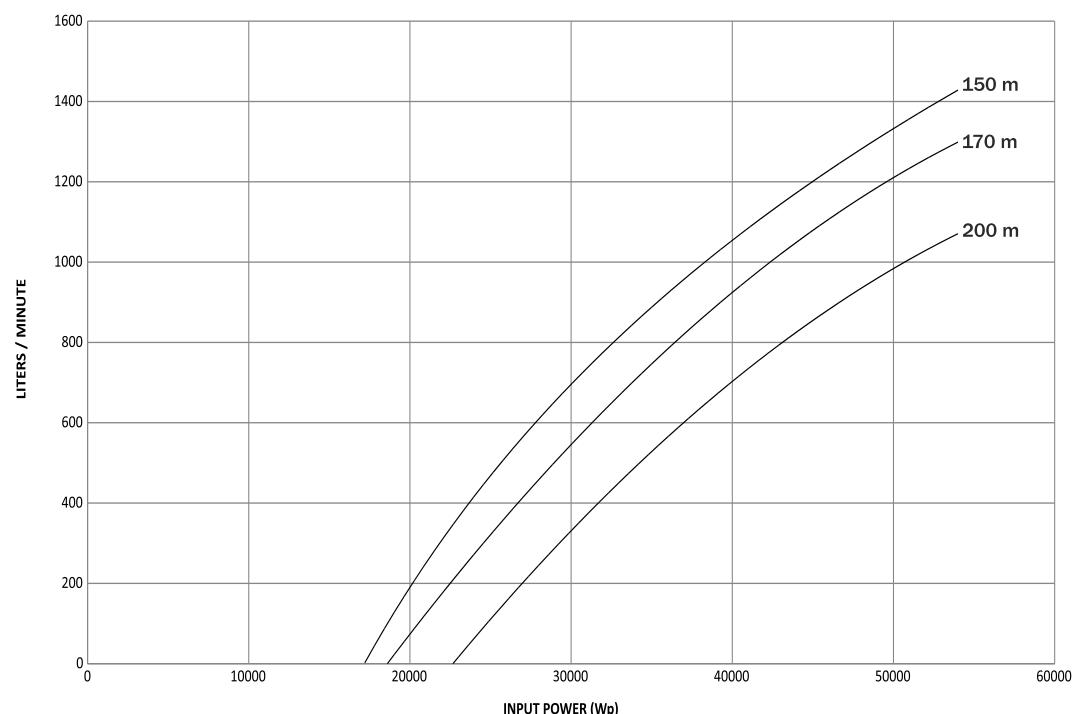
|          | INPUT POWER (Wp) |       |       |       |       |       |       |
|----------|------------------|-------|-------|-------|-------|-------|-------|
|          | 54000            | 43200 | 32400 | 27000 | 20500 | 16100 | 14000 |
| HEAD (m) | FLOW IN LPM      |       |       |       |       |       |       |
| 120      | 1890             | 1435  | 915   | 615   | 0     |       |       |
| 102      | 2100             | 1645  | 1220  | 800   | 300   | 0     |       |
| 90       | 2240             | 1925  | 1475  | 1000  | 550   | 150   | 0     |



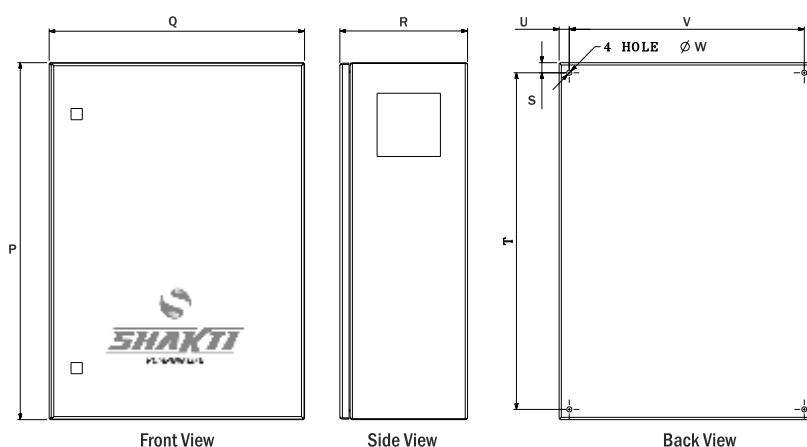
CONTROLLER CODE : 9000021164

**SOLAR PUMPING SYSTEM**

**SOLAR 64 DCSSP 54000**  
**BSP 100 mm (8X6)**  
**PUMPSET CODE** 9500000459  
**DISCHARGE (LPD)** 351000  
**DISCHARGE (LPW)** 6.5  
**DUTY HEAD** 200 METER  
**CHOKE CODE** 9000025820



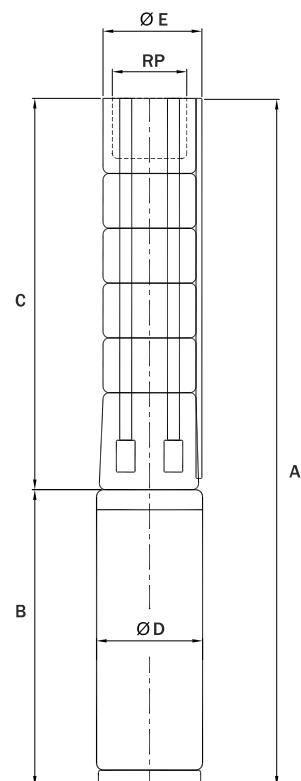
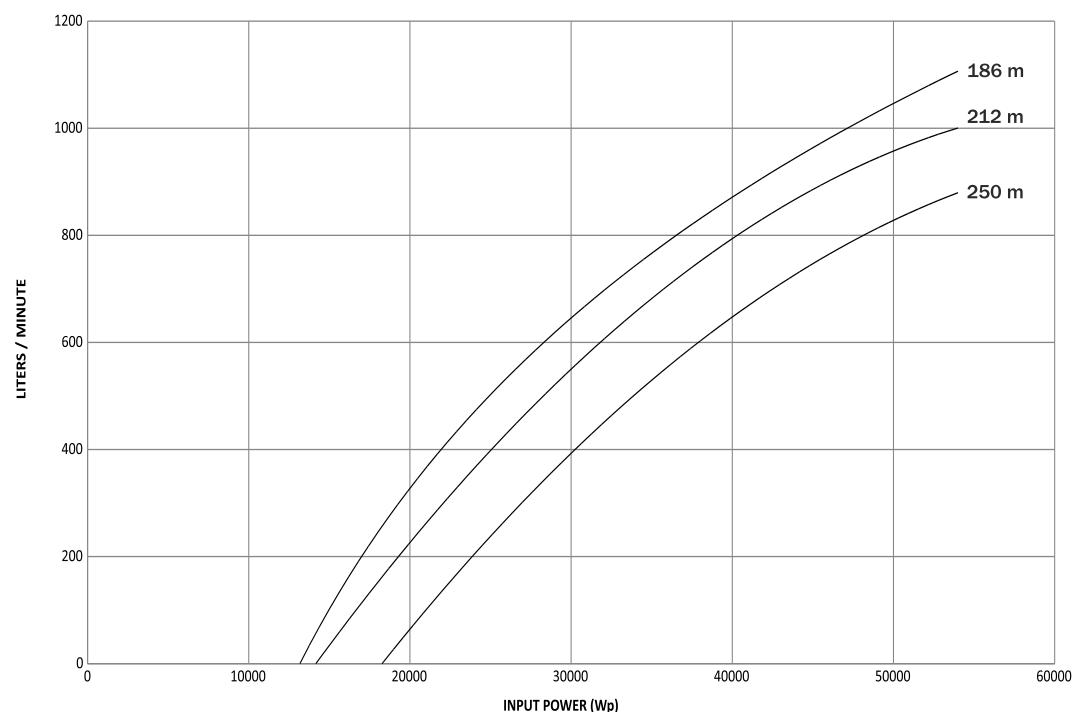
|          | INPUT POWER (Wp) |       |       |       |       |       |       |
|----------|------------------|-------|-------|-------|-------|-------|-------|
|          | 54000            | 43150 | 32350 | 27000 | 23200 | 19000 | 18000 |
| HEAD (m) | FLOW IN LPM      |       |       |       |       |       |       |
| 200      | 1080             | 775   | 440   | 230   | 0     |       |       |
| 170      | 1300             | 1020  | 665   | 350   | 300   | 0     |       |
| 150      | 1420             | 1170  | 800   | 500   | 400   | 200   | 0     |



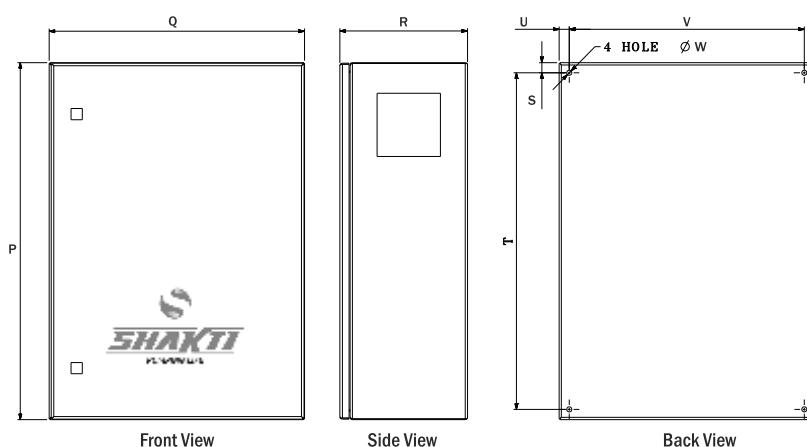
CONTROLLER CODE : 9000021164

**SOLAR PUMPING SYSTEM**

**SOLAR 53 DCSSP 54000**  
**BSP 75 mm (8X6)**  
**PUMPSET CODE** 9500000460  
**DISCHARGE (LPD)** 297000  
**DISCHARGE (LPW)** 5.5  
**DUTY HEAD** 250 METER  
**CHOKE CODE** 9000025821

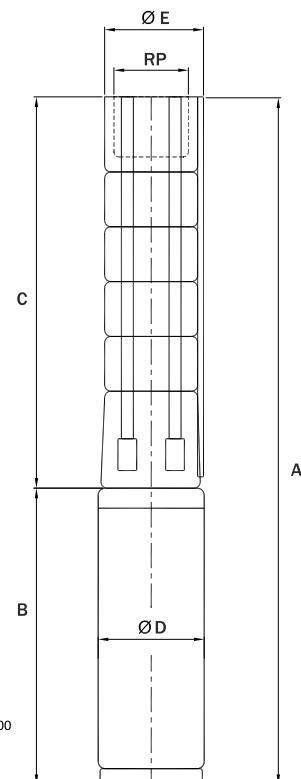
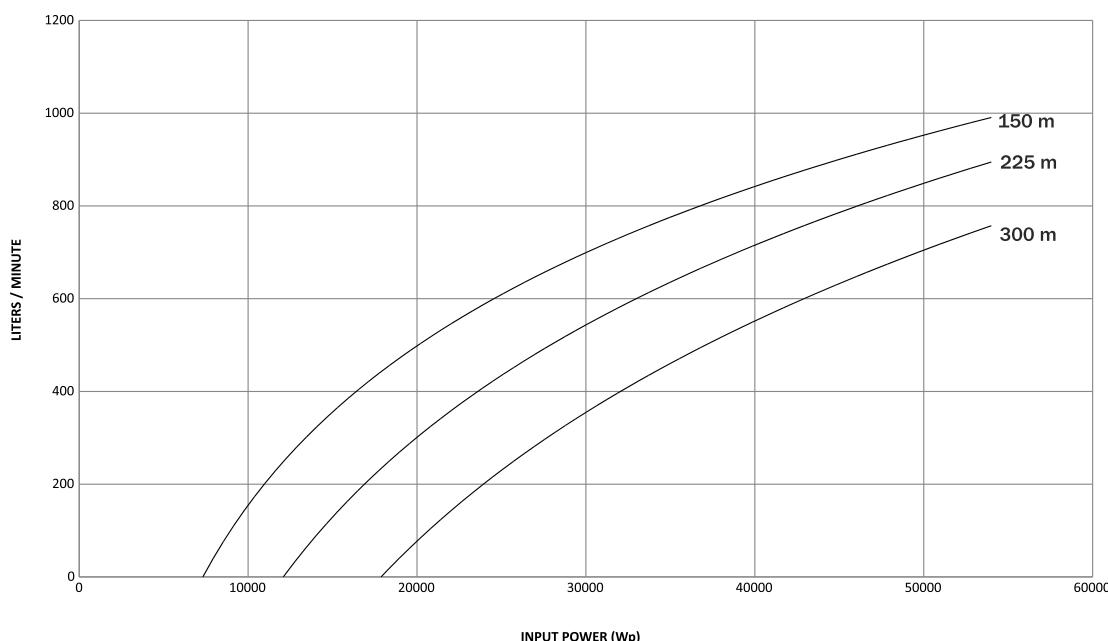


|          | INPUT POWER (Wp) |       |       |       |       |       |       |
|----------|------------------|-------|-------|-------|-------|-------|-------|
|          | 54000            | 43200 | 32400 | 21550 | 18850 | 15000 | 14000 |
| HEAD (m) | FLOW IN LPM      |       |       |       |       |       |       |
| 250      | 890              | 685   | 480   | 140   | 0     |       |       |
| 212      | 1010             | 840   | 600   | 320   | 200   | 0     |       |
| 186      | 1090             | 930   | 700   | 440   | 300   | 100   | 0     |

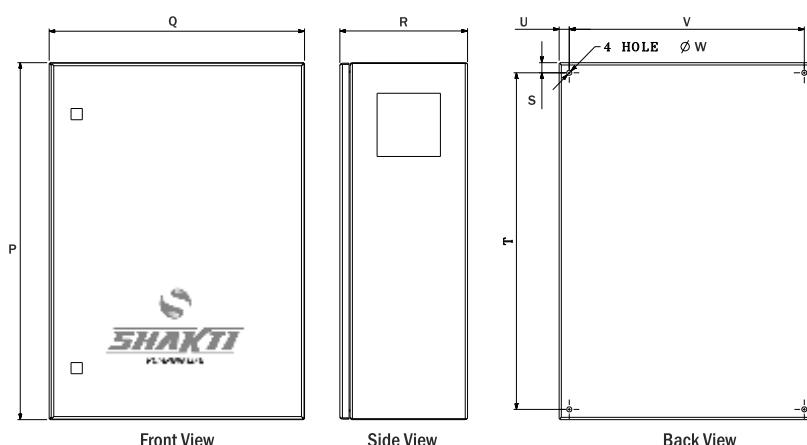


**SOLAR PUMPING SYSTEM**

**SOLAR 42 DCSSP 54000**  
**BSP 75 mm (8X6)**  
**PUMPSET CODE** 9500000461  
**DISCHARGE (LPD)** 243000  
**DISCHARGE (LPW)** 4.5  
**DUTY HEAD** 300 METER  
**CHOKE CODE** 9000025824

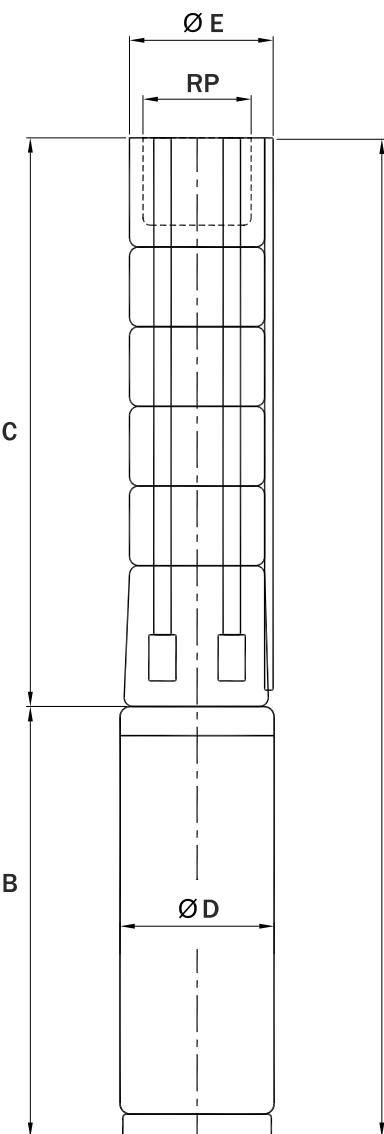


|          | INPUT POWER (Wp) |       |       |       |       |       |      |
|----------|------------------|-------|-------|-------|-------|-------|------|
|          | 54000            | 44250 | 26800 | 21250 | 18550 | 12400 | 7200 |
| HEAD (m) | FLOW IN LPM      |       |       |       |       |       |      |
| 300      | 745              | 620   | 315   | 120   | 0     |       |      |
| 225      | 860              | 800   | 500   | 345   | 250   | 0     |      |
| 150      | 970              | 900   | 662   | 556   | 450   | 230   | 0    |



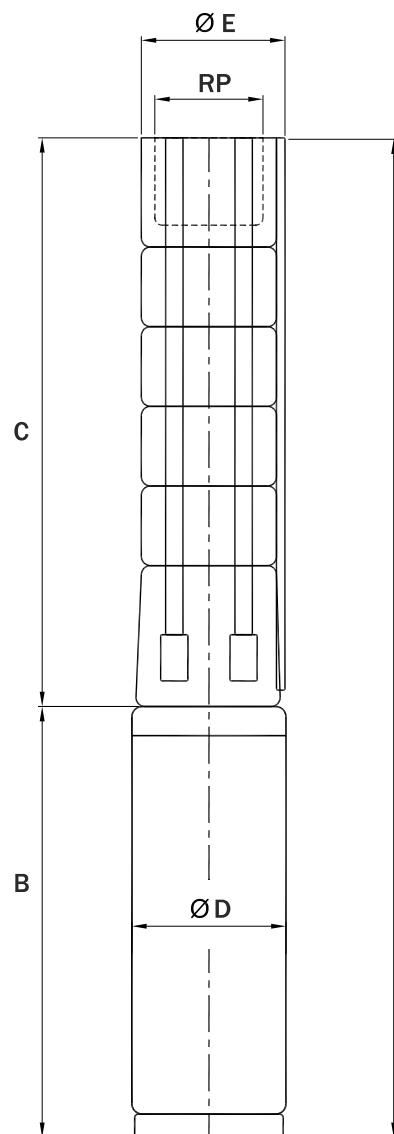
**SOLAR PUMPING SYSTEM**
**SOLAR DC SUBMERSIBLE GA DRAWING**

| SET CODE   | DESCRIPTION            | A    | B   | C    | D   | E   | Rp  |
|------------|------------------------|------|-----|------|-----|-----|-----|
| 9500000828 | SOLAR 16.5 DCSSP 900   | 698  | 311 | 387  | 95  | 128 | 50  |
| 9500001597 | SOLAR 20.5 DCSSP 1200  | 699  | 311 | 388  | 95  | 128 | 50  |
| 9500000819 | SOLAR 10 DCSSP 1200    | 996  | 311 | 685  | 95  | 97  | 50  |
| 9500000939 | SOLAR 8 DCSSP 1200     | 996  | 311 | 685  | 95  | 97  | 50  |
| 9500000853 | SOLAR 34 DCSSP 1800    | 708  | 341 | 367  | 95  | 132 | 75  |
| 9500000844 | SOLAR 12 DCSSP 1800    | 826  | 341 | 485  | 95  | 97  | 50  |
| 9500000941 | SOLAR 10.5 DCSSP 1800  | 876  | 341 | 535  | 95  | 97  | 50  |
| 9500000862 | SOLAR 48 DCSSP 3000    | 708  | 341 | 367  | 95  | 132 | 75  |
| 9500000854 | SOLAR 31 DCSSP 3000    | 789  | 341 | 448  | 95  | 128 | 65  |
| 9500000949 | SOLAR 21 DCSSP 3000    | 789  | 341 | 448  | 95  | 128 | 65  |
| 9500000950 | SOLAR 10.5 DCSSP 3000  | 1026 | 341 | 685  | 95  | 97  | 50  |
| 9500000934 | SOLAR 8.5 DCSSP 3000   | 1176 | 341 | 835  | 95  | 97  | 50  |
| 9500000936 | SOLAR 6 DCSSP 3000     | 956  | 341 | 615  | 95  | 97  | 38  |
| 9500000871 | SOLAR 73.5 DCSSP 4800  | 1016 | 412 | 604  | 95  | 138 | 100 |
| 9500000863 | SOLAR 45 DCSSP 4800    | 779  | 412 | 367  | 95  | 132 | 75  |
| 9500000855 | SOLAR 35.5 DCSSP 4800  | 975  | 412 | 563  | 95  | 128 | 75  |
| 9500000955 | SOLAR 19 DCSSP 4800    | 981  | 412 | 569  | 95  | 128 | 65  |
| 9500000957 | SOLAR 15 DCSSP 4800    | 1397 | 412 | 985  | 95  | 97  | 50  |
| 9500000938 | SOLAR 9.5 DCSSP 4800   | 1397 | 412 | 985  | 95  | 97  | 50  |
| 9500000983 | SOLAR 6 DCSSP 4800     | 1174 | 412 | 762  | 95  | 97  | 38  |
| 9500000980 | SOLAR 5 DCSSP 4800     | 1174 | 412 | 762  | 95  | 97  | 38  |
| 9500000884 | SOLAR 120 DCSSP 6750   | 903  | 412 | 491  | 95  | 138 | 100 |
| 9500000628 | SOLAR 66 DCSSP 6750    | 953  | 412 | 541  | 95  | 143 | 75  |
| 9500000620 | SOLAR 42.5 DCSSP 6750  | 949  | 412 | 537  | 95  | 132 | 75  |
| 9500001624 | SOLAR 26 DCSSP 6750    | 1096 | 412 | 684  | 95  | 128 | 65  |
| 9500001626 | SOLAR 20 DCSSP 6750    | 1103 | 412 | 691  | 95  | 128 | 65  |
| 9500001627 | SOLAR 15 DCSSP 6750    | 1650 | 412 | 1238 | 95  | 97  | 50  |
| 9500000823 | SOLAR 11 DCSSP 6750    | 1647 | 412 | 1235 | 95  | 97  | 50  |
| 9500000834 | SOLAR 10 DCSSP 6750    | 1897 | 412 | 1485 | 95  | 97  | 50  |
| 9500000885 | SOLAR 122 DCSSP 9000   | 1235 | 615 | 620  | 138 | 168 | 100 |
| 9500000455 | SOLAR 96 DCSSP 9000    | 1235 | 615 | 620  | 138 | 168 | 100 |
| 9500000873 | SOLAR 52.5 DCSSP 9000  | 1254 | 615 | 639  | 138 | 143 | 75  |
| 9500001460 | SOLAR 40 DCSSP 9000    | 1250 | 615 | 635  | 138 | 138 | 75  |
| 9500001510 | SOLAR 23 DCSSP 9000    | 1496 | 615 | 881  | 138 | 138 | 65  |
| 9500001550 | SOLAR 19 DCSSP 9000    | 1501 | 615 | 886  | 138 | 138 | 65  |
| 9500000772 | SOLAR 16 DCSSP 9000    | 1622 | 615 | 1007 | 138 | 138 | 50  |
| 9500000605 | SOLAR 12 DCSSP 9000    | 2152 | 615 | 1537 | 138 | 138 | 50  |
| 9500001598 | SOLAR 9 DCSSP 9000     | 2402 | 615 | 1787 | 138 | 138 | 50  |
| 9500001731 | SOLAR 23 DCSSP 11250   | 1501 | 615 | 886  | 138 | 138 | 65  |
| 9500001733 | SOLAR 12 DCSSP 11250   | 2402 | 615 | 1787 | 138 | 138 | 50  |
| 9500000886 | SOLAR 139 DCSSP 13500  | 1252 | 670 | 582  | 138 | 150 | 100 |
| 9500000880 | SOLAR 86 DCSSP 13500   | 1403 | 670 | 733  | 138 | 140 | 100 |
| 9500000874 | SOLAR 54 DCSSP 13500   | 1390 | 670 | 720  | 138 | 138 | 75  |
| 9500000866 | SOLAR 43 DCSSP 13500   | 1475 | 670 | 805  | 138 | 138 | 75  |
| 9500000614 | SOLAR 30.5 DCSSP 13500 | 1645 | 670 | 975  | 138 | 138 | 75  |
| 9500001714 | SOLAR 19 DCSSP 13500   | 1859 | 670 | 1189 | 138 | 138 | 50  |



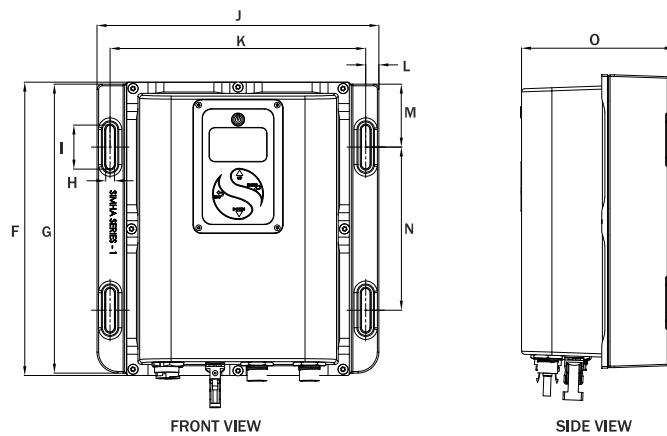
**SOLAR PUMPING SYSTEM**
**SOLAR DC SUBMERSIBLE GA DRAWING**

|            |                        |      |      |      |     |     |     |
|------------|------------------------|------|------|------|-----|-----|-----|
| 9500001732 | SOLAR 14 DCSSP 13500   | 2161 | 670  | 1491 | 138 | 138 | 50  |
| 9500000835 | SOLAR 11 DCSSP 13500   | 2707 | 670  | 2037 | 138 | 138 | 50  |
| 9500000887 | SOLAR 240 DCSSP 18000  | 1493 | 775  | 718  | 138 | 227 | 150 |
| 9500000896 | SOLAR 148 DCSSP 18000  | 1523 | 775  | 748  | 138 | 168 | 100 |
| 9500000661 | SOLAR 129 DCSSP 18000  | 1523 | 775  | 748  | 138 | 168 | 100 |
| 9500000623 | SOLAR 81 DCSSP 18000   | 1621 | 775  | 846  | 138 | 140 | 100 |
| 9500001726 | SOLAR 53 DCSSP 18000   | 1580 | 775  | 805  | 138 | 143 | 75  |
| 9500001727 | SOLAR 43 DCSSP 18000   | 1750 | 775  | 975  | 138 | 143 | 75  |
| 9500000607 | SOLAR 36 DCSSP 18000   | 1750 | 775  | 975  | 138 | 138 | 75  |
| 9500001723 | SOLAR 20 DCSSP 18000   | 2266 | 775  | 1491 | 138 | 138 | 50  |
| 9500000562 | SOLAR 16 DCSSP 18000   | 2569 | 775  | 1794 | 138 | 138 | 50  |
| 9500000543 | SOLAR 13 DCSSP 18000   | 2889 | 775  | 2114 | 138 | 138 | 50  |
| 9500000897 | SOLAR 156 DCSSP 22500  | 1573 | 825  | 748  | 138 | 168 | 100 |
| 9500000894 | SOLAR 140 DCSSP 22500  | 1573 | 825  | 748  | 138 | 168 | 125 |
| 9500000637 | SOLAR 93 DCSSP 22500   | 1671 | 825  | 846  | 138 | 140 | 100 |
| 9500000881 | SOLAR 72 DCSSP 22500   | 1784 | 825  | 959  | 138 | 140 | 100 |
| 9500001748 | SOLAR 48 DCSSP 22500   | 1973 | 825  | 1148 | 138 | 138 | 75  |
| 9500001716 | SOLAR 44 DCSSP 22500   | 1887 | 825  | 1062 | 138 | 138 | 75  |
| 9500000860 | SOLAR 26 DCSSP 22500   | 2316 | 825  | 1491 | 138 | 138 | 50  |
| 9500000837 | SOLAR 23 DCSSP 22500   | 2316 | 825  | 1491 | 138 | 138 | 50  |
| 9500001715 | SOLAR 19 DCSSP 22500   | 2619 | 825  | 1794 | 138 | 138 | 50  |
| 9500000851 | SOLAR 16 DCSSP 22500   | 2939 | 825  | 2114 | 138 | 138 | 50  |
| 9500000893 | SOLAR 121 DCSSP 27000  | 1875 | 999  | 876  | 138 | 168 | 100 |
| 9500000889 | SOLAR 84 DCSSP 27000   | 2065 | 999  | 1066 | 138 | 140 | 100 |
| 9500001720 | SOLAR 64.5 DCSSP 27000 | 2291 | 999  | 1292 | 138 | 140 | 100 |
| 9500000877 | SOLAR 60 DCSSP 27000   | 2147 | 999  | 1148 | 138 | 138 | 75  |
| 9500001717 | SOLAR 43 DCSSP 27000   | 2147 | 999  | 1148 | 138 | 138 | 75  |
| 9500000777 | SOLAR 26 DCSSP 27000   | 2490 | 999  | 1491 | 138 | 138 | 50  |
| 9500000861 | SOLAR 23 DCSSP 27000   | 2793 | 999  | 1794 | 138 | 138 | 50  |
| 9500001721 | SOLAR 20 DCSSP 27000   | 3113 | 999  | 2114 | 138 | 138 | 50  |
| 9500000670 | SOLAR 139 DCSSP 36000  | 2227 | 1210 | 1017 | 194 | 194 | 100 |
| 9500000664 | SOLAR 119 DCSSP 36000  | 2227 | 1210 | 1017 | 194 | 194 | 100 |
| 9500000657 | SOLAR 84 DCSSP 36000   | 2502 | 1210 | 1292 | 194 | 194 | 100 |
| 9500000634 | SOLAR 69 DCSSP 36000   | 2869 | 1210 | 1659 | 194 | 194 | 75  |
| 9500000458 | SOLAR 57 DCSSP 36000   | 2869 | 1210 | 1659 | 194 | 194 | 75  |
| 9500001729 | SOLAR 44 DCSSP 36000   | 2897 | 1210 | 1687 | 138 | 180 | 75  |
| 9500001356 | SOLAR 27 DCSSP 36000   | 3354 | 1210 | 2144 | 194 | 194 | 50  |
| 9500000611 | SOLAR 25 DCSSP 36000   | 3354 | 1210 | 2144 | 194 | 194 | 50  |
| 9500001494 | SOLAR 150 DCSSP 45000  | 2355 | 1210 | 1145 | 194 | 194 | 100 |
| 9500000962 | SOLAR 135 DCSSP 45000  | 2355 | 1210 | 1145 | 194 | 194 | 100 |
| 9500000959 | SOLAR 110 DCSSP 45000  | 2483 | 1210 | 1273 | 194 | 194 | 100 |
| 9500000953 | SOLAR 87 DCSSP 45000   | 2869 | 1210 | 1659 | 194 | 194 | 100 |
| 9500001722 | SOLAR 70 DCSSP 45000   | 3208 | 1210 | 1998 | 138 | 186 | 75  |
| 9500000935 | SOLAR 53 DCSSP 45000   | 3208 | 1210 | 1998 | 194 | 194 | 75  |
| 9500001724 | SOLAR 42 DCSSP 45000   | 3237 | 1210 | 2027 | 138 | 180 | 75  |
| 9500000827 | SOLAR 148 DCSSP 54000  | 2563 | 1290 | 1273 | 194 | 194 | 100 |
| 9500000836 | SOLAR 126 DCSSP 54000  | 2563 | 1290 | 1273 | 194 | 194 | 100 |
| 9500000892 | SOLAR 113 DCSSP 54000  | 2563 | 1290 | 1273 | 194 | 194 | 100 |
| 9500000459 | SOLAR 64 DCSSP 54000   | 3288 | 1290 | 1998 | 194 | 194 | 100 |
| 9500000460 | SOLAR 53 DCSSP 54000   | 4425 | 1290 | 3135 | 194 | 194 | 75  |
| 9500000461 | SOLAR 42 DCSSP 54000   | 3668 | 1290 | 2378 | 194 | 194 | 75  |

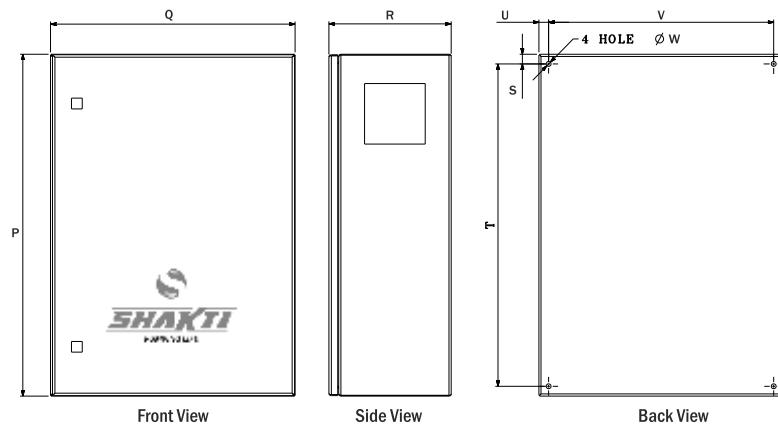


**SOLAR PUMPING SYSTEM**
**SOLAR DC CONTROLLER GA DRAWING**

| SR. NO. | SET CODE   | DESCRIPTION                      | F   | G     | H   | I  | J   | K   | L    | M  | N     | O   |
|---------|------------|----------------------------------|-----|-------|-----|----|-----|-----|------|----|-------|-----|
| 1       | 9600000001 | SHAKTI SUD 1P,12A, 180 VDC,1HP   | 280 | 275.5 | 8.5 | 42 | 270 | 244 | 12.5 | 60 | 155.5 | 146 |
| 2       | 9600000002 | SHAKTI SUD 1P,12A, 360 VDC,2HP   | 280 | 275.5 | 8.5 | 42 | 270 | 244 | 12.5 | 60 | 155.5 | 146 |
| 3       | 9600000003 | SHAKTI SUD 3P,12A, 450 VDC,3HP   | 280 | 275.5 | 8.5 | 42 | 270 | 244 | 12.5 | 60 | 155.5 | 146 |
| 4       | 9600000004 | SHAKTI SUD 3P,12A, 720 VDC,5HP   | 280 | 275.5 | 8.5 | 42 | 270 | 244 | 12.5 | 60 | 155.5 | 146 |
| 5       | 9600000021 | SHAKTI SUD 3P,20A, 450 VDC,7.5HP | 280 | 275.5 | 8.5 | 42 | 270 | 244 | 12.5 | 60 | 155.5 | 146 |
| 6       | 9600000022 | SHAKTI SUD 3P,20A, 720 VDC,10HP  | 280 | 275.5 | 8.5 | 42 | 270 | 244 | 12.5 | 60 | 155.5 | 146 |



| SR. NO. | SET CODE   | DESCRIPTION                              | P   | Q   | R   | S  | T   | U  | V   | W   |
|---------|------------|--|-----|-----|-----|----|-----|----|-----|-----|
| 1       | 9000023556 | SOLAR CONT.DC-SHAKTI-03P-38A (17.5-25HP) | 700 | 500 | 250 | 20 | 660 | 20 | 460 | Ø10 |
| 2       | 9000023554 | SOLAR CONT.DC-SHAKTI-03P-60A (30-40HP)   | 760 | 600 | 360 | 20 | 720 | 50 | 560 | Ø10 |
| 3       | 9000021164 | SOLAR CONT.DC-SHAKTI-03P-90A (50-60HP)   | 760 | 600 | 360 | 20 | 720 | 50 | 560 | Ø10 |



## Note



## OUR PRESENCE



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Other Countries : +91-7292 410500

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