



Solar pumps and controllers

SOLAR SUBMERSIBLE PUMPS (BOREWELL/DEEP WELL)



www.mymecsolar.com

TESTED IN:



About Our Company

MEC Solar is a division of Mercury Electronic Corporation founded in 2016 headquartered in Bangalore, India.

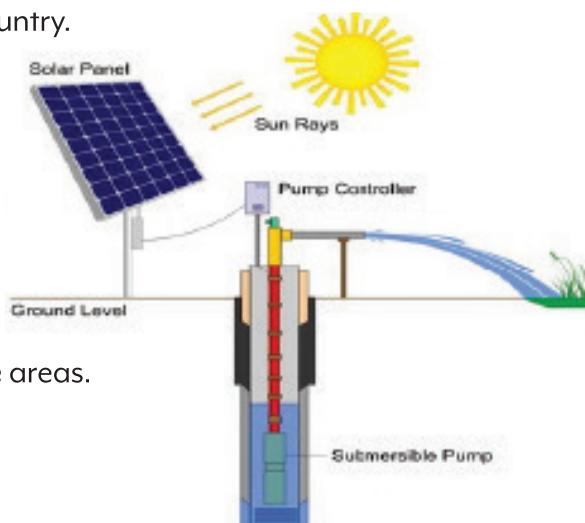
To cater to the needs of the new and emerging Indian solar market, MEC has invested in world class facilities and technologies to cater to the demands Solar pumps and industrial pumps across the Indian sub-continent. Our world class facilities in India are fully equipped to advise customers, design, test, fabricate and quality-assure on all aspects of fluid mechanics in India. Our manufacturing plant in Bangalore, is a showcase of immaculate manufacturing and engineering practices!

Manufacturing and Service Capabilities

- Plant has got capacity to produce more than 50,000 units annually.
- Fully automated assembly lines separately for surface & submersible pumps.
- In house design team for Motor, Fluid dynamics and Drive development.
- Separate Dust free room for winding and magnet assembly.
- Fully equipped ESD Electronics R&D lab for continual development.
- Separate reliability test bench for testing full system with solar simulator.
- In house Prototyping and Assembly line.
- Fully equipped team with lean manufacturing techniques to deliver product in time.
- Fully trained service engineers working in different part of the country.

Benefits of Solar Water Pump

- No fuel cost & minimum maintenance cost.
- More economical than diesel pump sets in the long run.
- Enables cultivation of an extra crop.
- Helps in providing the critical protective irrigation in water scarce areas.
- Saves time and labour.
- Improves agriculture productivity.
- Improves general quality of life with higher levels of income.
- Incremental income enables easy repayment loan taken for installing system.



About Our Products

MEC Solar pumps are specially designed with latest technology

which lowers the risk of damages and protects it from many unfavorable conditions

MEC Bore well DC & AC solar submersible pumps comprise of a comprehensive range of pumps that operate on a PV array of 500Wp to 50000Wp.



Pump & Motor

- Energy efficient motor
- Usage of Low watt In-house Manufactured Stampings
- Low operating cost (Low Power Consumption)
- Water lubricated motor with easily rewirable stator
- Energy Efficient Radial and mixed flow models
- Rubber diaphragm provided at the bottom of the motor to compensate thermal expansion of water
- Wide voltage operation to suit all seasons
- Low, Medium, High Voltage operation Motors to suit particular field condition
- Pumpsets with special materials are available on request
- Available in 3" , 4" , 5" , 6" , 7" , 8" , 9" , 10" Sizes

Controller

- Built in MPPT for maximum output.
- Sensor less Dry running protection and automatic restart.
- Thermal overload shut down to avoid damage to the Motor Or the Controller.
- Tested as per MNRE and BIS requirement.
- Warranted for 5 years.
- Remote monitoring.
- Remote start and stop.
- Short circuit protected.
- IP54 and IP65 certified enclosures.



PUMP DETAILS					SOLAR PANEL CAPACITY			DRIVE / CONTROLLER DETAILS				
SL NO	Capacity in Hp	Dynamic Head in meter	Approx Discharge per day (Litres)	Pump Dia in mm	Solar Panel capacity (Wp)	Solar Panel Configuration details	No of strings	Controller/ Drive Capacity	Input Voltage Range (VDC)	Max input Current in Amps (DC)	Drive output Voltage (AC)	Max input Power (DC) in kWp
1	1HP	31	35200	100	1280	320WP X 4 PANEL	1	1HP	60V - 200V	9AMPS	110V	1.2
2	1HP	46	17600	100	1280	320WP X 4 PANEL	1	1HP	60V - 200V	9AMPS	110V	1.2
3	1HP	62	11000	100	960	320WP X 3 PANEL	1	1HP	60V - 200V	9AMPS	110V	1.2
4	2HP	31	49500	100	2240	320WP X 7 PANEL	1	2HP	130V - 450V	9AMPS	160V	2.2
5	3HP	31	110000	150	3200	320WP X 10 PANEL	1	3HP	150V - 470V	9AMPS	230V	3.5
6	3HP	46	71500	100	3520	320WP X 11 PANEL	1	5HP	150V - 470V	9AMPS	230V	6
7	3HP	62	44000	100	3840	320WP X 12 PANEL	1	5HP	150V - 470V	9AMPS	230V	6
8	5HP	46	110000	150	4800	320WP X 15 PANEL	1	5HP	250V - 780V	9AMPS	380V	6
9	5HP	62	88000	150	5120	320WP X 16 PANEL	1	5HP	250V - 780V	9AMPS	380V	6
10	5HP	77	74800	150	5440	320WP X 17 PANEL	1	5HP	250V - 780V	9AMPS	380V	6
11	5HP	92	55000	150	5440	320WP X 17 PANEL	2	5HP	250V - 780V	9AMPS	380V	6
12	5HP	108	46200	150	6400	320WP X 20 PANEL	2	7.5HP	250V - 780V	18 AMPS	380V	6
13	5HP	123	44000	150	7040	320WP X 22 PANEL	2	7.5HP	250V - 780V	18 AMPS	380V	12
14	5HP	154	39600	150	7680	320WP X 24 PANEL	2	7.5HP	250V - 780V	18 AMPS	380V	12
15	5HP	185	37400	150	8320	320WP X 26 PANEL	2	7.5HP	250V - 780V	18 AMPS	380V	12
16	7.5HP	50	141075	150	7680	320WP X 24 PANEL	2	7.5HP	250V - 780V	18 AMPS	380V	12
17	7.5HP	70	96800	150	7680	320WP X 24 PANEL	2	7.5HP	250V - 780V	18 AMPS	380V	12
18	7.5HP	100	63800	150	7680	320WP X 24 PANEL	2	7.5HP	250V - 780V	18 AMPS	380V	12
19	7.5HP	123	66000	150	8320	320WP X 26 PANEL	2	10HP	250V - 780V	18 AMPS	380V	12
20	7.5HP	138	55000	150	8680	310WP X 28 PANEL	2	10HP	250V - 780V	18 AMPS	380V	12
21	7.5HP	154	44000	150	8680	310WP X 28 PANEL	2	10HP	250V - 780V	18 AMPS	380V	12
22	7.5HP	169	44000	150	9300	310WP X 30 PANEL	2	10HP	250V - 780V	18 AMPS	380V	12
23	7.5HP	185	38500	150	9920	310WP X 32 PANEL	2	10HP	250V - 780V	18 AMPS	380V	12
24	7.5HP	200	33000	150	10540	310WP X 34 PANEL	2	10HP	250V - 780V	18 AMPS	380V	12
25	7.5HP	215	30800	150	12090	310WP X 39 PANEL	2	15HP	250V - 780V	24 AMPS	380V	16
26	7.5HP	231	27500	150	13020	310WP X 42 PANEL	2	15HP	250V - 780V	24 AMPS	380V	16
27	7.5HP	246	22000	150	13950	310WP X 45 PANEL	2	15HP	250V - 780V	24 AMPS	380V	16
28	10HP	50	198000	150	10540	310WP X 34 PANEL	2	10HP	250V - 780V	18 AMPS	380V	12
29	10HP	70	132000	150	10540	310WP X 34 PANEL	2	10HP	250V - 780V	18 AMPS	380V	12
30	10HP	100	88000	150	10540	310WP X 34 PANEL	2	10HP	250V - 780V	18 AMPS	380V	12
31	10HP	150	44000	150	10540	310WP X 34 PANEL	2	10HP	250V - 780V	18 AMPS	380V	12
32	10HP	185	49500	150	12090	310WP X 39 PANEL	3	15HP	250V - 780V	24 AMPS	380V	16
33	10HP	200	44000	150	12090	310WP X 39 PANEL	3	15HP	250V - 780V	24 AMPS	380V	16

PUMP DETAILS					SOLAR PANEL CAPACITY			DRIVE / CONTROLLER DETAILS				
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34	10HP	215	38500	150	12480	320WP X 39 PANEL	3	15HP	250V - 780V	24 AMPS	380V	16
35	10HP	231	33000	150	13950	310WP X 45 PANEL	3	15HP	250V - 780V	24 AMPS	380V	16
36	10HP	246	28600	150	13950	310WP X 45 PANEL	3	15HP	250V - 780V	24 AMPS	380V	16
37	10HP	262	27500	150	14400	320WP X 45 PANEL	3	15HP	250V - 780V	24 AMPS	380V	16
38	10HP	277	22000	150	14400	320WP X 45 PANEL	3	15HP	250V - 780V	24 AMPS	380V	16
39	10HP	292	27500	150	15360	320WP X 48 PANEL	3	15HP	250V - 780V	24 AMPS	380V	16
40	10HP	308	22000	150	15360	320WP X 48 PANEL	3	15HP	250V - 780V	24 AMPS	380V	16
41	12.5HP	50	247500	150	13020	310WP X 42 PANEL	3	15HP	250V - 780V	24 AMPS	380V	16
42	12.5HP	70	176000	150	13020	310WP X 42 PANEL	3	15HP	250V - 780V	24 AMPS	380V	16
43	12.5HP	100	121000	150	13020	310WP X 42 PANEL	3	15HP	250V - 780V	24 AMPS	380V	16
44	12.5HP	150	66000	150	13020	310WP X 42 PANEL	3	15HP	250V - 780V	24 AMPS	380V	16
45	12.5HP	231	44000	150	15360	320WP X 48 PANEL	3	15HP	250V - 780V	24 AMPS	380V	16
46	12.5HP	246	38500	150	15360	320WP X 48 PANEL	3	15HP	250V - 780V	24 AMPS	380V	16
47	15HP	50	330000	150	15360	320WP X 48 PANEL	3	15HP	250V - 780V	24 AMPS	380V	16
48	15HP	70	264000	150	15360	320WP X 48 PANEL	3	15HP	250V - 780V	24 AMPS	380V	16
49	15HP	100	209000	150	15360	320WP X 48 PANEL	3	15HP	250V - 780V	24 AMPS	380V	16
50	15HP	150	143000	150	15360	320WP X 48 PANEL	3	15HP	250V - 780V	24 AMPS	380V	16
51	15HP	277	49500	150	19840	310WP X 64 PANEL	4	20HP	250V - 780V	32 AMPS	380V	20
52	15HP	308	38500	150	19840	310WP X 64 PANEL	4	20HP	250V - 780V	32 AMPS	380V	20
53	20HP	150	198000	150	20480	320WP X 64 PANEL	4	20HP	250V - 780V	32 AMPS	380V	20
54	30HP	150	240000	150	2932	345WP X 85 PANEL	5	30HP	250V - 780V	45 AMPS	380V	30
55	40HP	150	310000	180	40460	340WP X 119 PANEL	7	40HP	350V - 780V	60 AMPS	380V	45
56	50HP	150	390000	180	50490	330WP X 153 PANEL	9	50HP	350V - 780V	75 AMPS	380V	55
57	60HP	150	460000	180	60775	325WP X 187 PANEL	11	60HP	350V - 780V	90 AMPS	380V	65
58	75HP	150	650000	180	76800	320WP X 240 PANEL	16	75HP	350V - 780V	150 AMPS	380V	85
59	100HP	150	950000	180	105600	320WP X 330 PANEL	22	100HP	350V - 780V	210 AMPS	380V	110
60	150HP	150	1400000	180	153600	320WP X 480 PANEL	32	150HP	350V - 780V	300 AMPS	380V	160

— N E T W O R K —



Bangalore - Karnataka
Belagavi - Karnataka
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Bihar- Patna
Rajasthan - Jaipur

Haryana - Gurugrama
Bhubaneshwar - Odisha
Ranchi - Jharkhand
Raipur - Chhattisgarh
Kolkata - West Bengal
Ahmadabad - Gujarat
Maharashtra - Pune
Assam - Guwahati



Factory Address: **MERCURY ELECTRONIC CORPORATION**

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OUR CHANNEL PARTNERS

— ACROSS GLOBE —



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