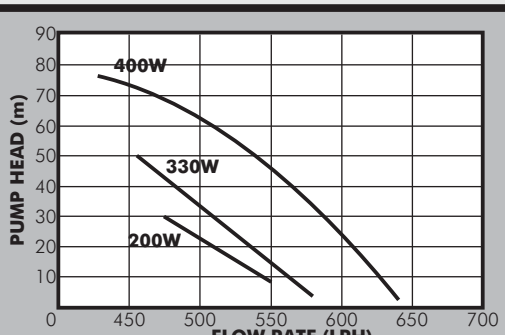
UPDATED

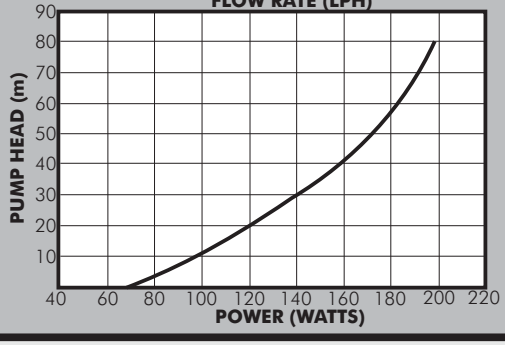
DAYLIFF

SUNFLO-S Solar Submersible Pump

SUNFLO-S 300

PUMP KITS





PUMP

DAYLIFF SUNFLO-S series submersible pumps are designed for reliable small-scale water supply from boreholes and wells and are the ideal solution for remote pumping requirements in livestock watering, irrigation and general water supply applications. They are of positive displacement three-chamber diaphragm design and can run dry without damage. An internal bypass is also incorporated to prevent pump damage in the event of delivery cut-off. A key feature is automatic restart every 10 mins in the event of low insolation.

Pump components are manufactured from high quality engineering plastics with santoprene used for the diaphragm and EPDM for the valves. Pump casings is stainless steel and a 50-mesh stainless steel screen.

Pumps can be installed either with a direct connection to the PV module or through a charge controller that is connected to a battery for 24hr operation. Pump output will be determined by the PV module input power available.

MOTOR

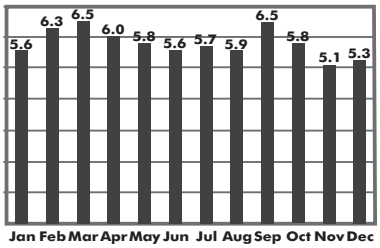
The pump is fitted with a permanent magnet type totally enclosed brushless motor with 24V DC power input from either a direct source or due to the positive displacement pump design, the motor can be connected to different size PV modules as indicated to provide the output required. Internal thermal protection is also provided.

PUMP KIT

The Sunflo-S pump is also available as a kit and includes

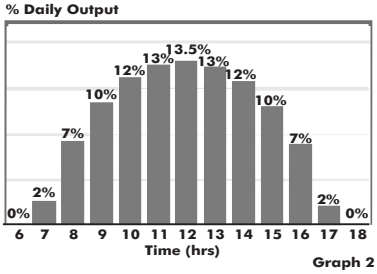
1. Solar Pump
2. 2x150W foldable mono solar PV panel complete with brackets
3. 20m Submersible cable with waterproof connector suitable for heads upto 60m. Extra cable available on request
4. 70m of delivery hose with connector
5. 70mx6mm Safety Rope
6. Diaphragm unit & seal ring spares

Average Daily Irradiation Values (Kwhr/m)



Graph 1

% Daily Output



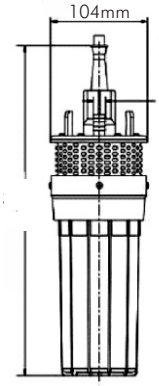
Graph 2

PUMP OUTPUTS

Performance curves are given at standard test conditions of 1000W/m^2 solar irradiance and 25^{0}C. Output will vary throughout the year depending upon prevailing irradiation levels. For estimated daily outputs at continuous pumping multiply the indicated output at the duty point by the daily irradiation given in Graph 1. For indicative purposes factors of 1.1 can be applied for hot arid areas and 0.9 for temperate high altitude areas in the Tropics. Output will vary throughout the day as a proportion of the estimated hourly irradiation as shown in Graph 2.

OPERATING CONDITIONS

Pumped Liquid: Thin, clean, chemically non-aggressive liquids without solid particles.
Nominal Voltage: 18V-40V
Max. Liquid Temperature: +77^{0}C
Ambient Temperature: -40^{0}C-+60^{0}C
Max. Immersion Depth: 30m
Internal by-pass Pressure: 7.5bar
Max. Voltage: 45V



Weight: 3Kgs

PUMP DATA

Model	Motor Power (Watts)	Voltage (VDC)	Input Power (Watts)	Current (A)	PV Modules (W)	Outlet (")
SUNFLO-S 300	300	24	200	4	1x200W	½
			330	6	1x330W	
			400	6	2x200W parallel	

Dimensions: **Pump:** 560x560x300mm **PV Panel:** 1120x780x80mm ***Total Weight:*** 43kgs