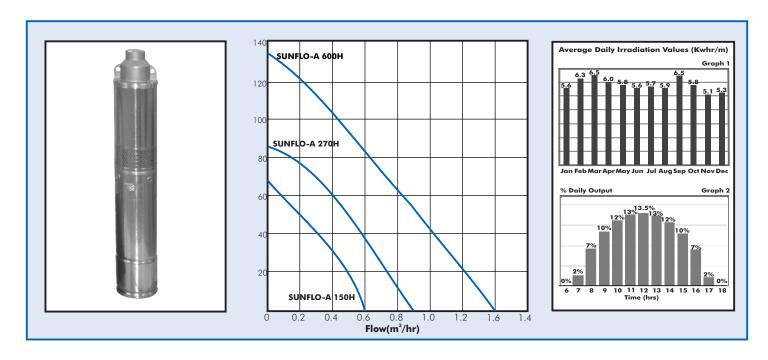
# **DC Solar Submersible Pump**



DAYLIFF SUNFLO-A pumps are specifically designed for PV solar powered water supply from wells and boreholes. They are of rotary screw design and material of construction for rotary screw is stainless steel with a rubber stator. Pumps are of simple structure and features an inbuilt controller.

#### Motor

Permanent magnet, oil filled, brushless, DC motor specifically designed for maximum efficiency from solar module power source. It should be powered by solar array configured to provide the input voltage and sized at approximately 130% of the rated motor power.

### **Pump Outputs**

Performance curves are given at standard test conditions of  $1000W/m^2$  solar irradiance and  $25^{\circ}C$ . 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 temperature 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 Parameters**

**Pumped liquid:** Thin, clean, chemically non-aggressive liquids with a sand content of less than 0.1%.

Max. Liquid Temperature:  $+40^{\circ}$ C Ambient Temperature:  $-20^{\circ}$ C -  $+50^{\circ}$ C

Min. Immersion Depth: 0.5m Max Immersion Depth: 30m Min. Borehole Diameter: 125m

Enclosure Class: IP68 Insulation Class: B Speed: 2900rpm

## **Pump Data**

Model	Voltage		Input Peak Voltage (W)	Open Cicrcuit Voltage	DN (")	Dimensions (mm)		Weight (kg)	
	(V)	(W)		(V)	(VOC)		Н	W	
SUNFLO-A 150H	24	150	200	≥30	< 50	3/4	680	76	7
SUNFLO-A 270H	36	270	350	≥45	<100	3/4	860	76	7
SUNFLO-A 600H	48	600	780	≥60	<100	3/4	1350	76	8

