

SOLARPLEX SPX-800-5

The SolarPlex SPX-800-5 is a solar powered horizontal multistage centrifugal water pump which can operate with solar PV panel configurations rated anywhere from 100W-800W, straight from the box. This allows head and flow to increase simply by adding more PV panels. Advanced MPPT software and electronics, combined with low-light operability means more water per day at a lower cost.

SOLUTION OVERVIEW

Flow Rate $max. \ 5.4 m^3/h \\ Head \\ Power Range \\ max. \ 75 m \\ 100W to 800W / \ \frac{1}{2} hp to 1 hp$

DIMENSIONS AND WEIGHTS

Length 380mm
Height 250mm
Width 140mm
Weight 9kg
Thread size 1"
Hose size 1144"



Box dimensions 460 > Total shipping weight

460 x 200 x 275mm 12kg

BENEFITS

More water per day at a range of heads

Reliable design

2 year warranty

No fuel required

Easily user maintained

KEY FEATURES

Direct PV connection and pump operation from integrated controller (no separate controller) Integrated high efficiency MPPT (incremental conductance Maximum Power Point Tracking) Automatic protection from overload, overtemperature, reverse polarity & locked rotor (i.e. impedance protected)

Continuous duty pump with a fan-cooled motor and temperature sensor integrated into motor windings

Maintenance-free brushless DC (BLDC) motor, NSK bearings, and unlimited lifetime metal-film capacitors for voltage regulation

Power limiter control mode allows users to set maximum flow rate to prevent dry running Switch control inputs for dry run protection and tank overflow



TECHNICAL DATA

Efficiency	max. 40%	Insulation Class	F
Max Input Voltage (Voc)	105 VDC	Water Temperature	0°C - 50°C
Min Input Voltage (Vmp)	See chart below	Ambient Temperature	max. 50°C
Motor Current	max. 12 A	Premium Materials	Stainless steel AISI 304
Enclosure Class	IP56	Impeller Stages	5
• 2 PV panels connected in series are generally required for heads over 20m and or power levels over 200W.			

PERFORMANCE CHARTS

