
High Power Solar Panels

Features

- Outstanding Low Light Performance.
- Solar cells laminated with TPT/EVA bi-layer for long life. 25 year solar cell output warranty.
- High Efficiency with high transparency low iron tempered glass cover. Rugged extruded anodized aluminum frame.
- Sealed for protection from harsh environments.
- Enclosed junction box for wired connections.

Applications

- Battery Charging Applications
- Surveillance Cameras
- Wireless Base Stations
- Outdoor Lighting
- On-Grid or Off-Grid systems
- Backup Power Systems

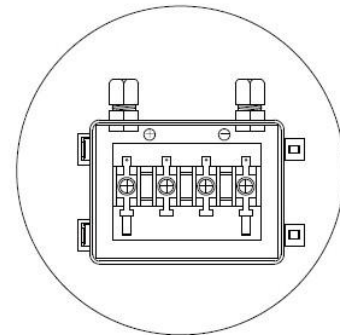


Description

The TPSHP series solar panels are high efficiency designs with excellent low light performance. The multicrystalline silicon solar cells are laminated with a TPT (Tedlar/Polyester/Tedlar) and EVA (Ethylene Vinyl Acetate) bi-layer for high reliability and long life. The cell array is sealed in a heavy duty extruded aluminum frame with a high transparency low iron tempered glass cover to protect the solar cells from harsh environments; hail, wind, snow and ice.

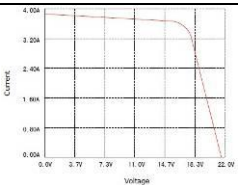
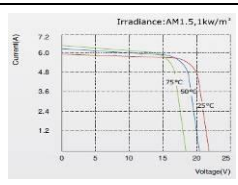
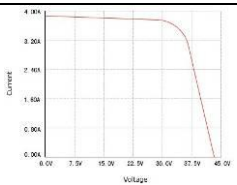
The solar panels are easy to mount because of the aluminum frame design. The wired connections are via a weatherproof junction box on the back of the panels.

The Normal Operating Cell Temperature is specified at 47°C.



Junction Box

Specifications

	TPSHP-12-60	TPSHP-12-120	TPSHP-24-120
Maximum Power (+/-5%)	60W	120W	120W
Voltage at Pmax (Vmp)	17.2V	17.2V	34.4V
Current at Pmax (Imp)	3.49A	6.98A	3.49A
Open Circuit Voltage (Voc)	21.6V	21.6V	43.2V
Short Circuit Current (Isc)	3.86A	7.72A	3.86A
Open Circuit Temp Coeff	.065% / °C	.065% / °C	.065% / °C
Short Circuit Temp Coeff	-80mV / °C	-80mV / °C	-80mV / °C
Output Power Temp Coeff	0.5%/°C	0.5%/°C	0.5%/°C
Monthly Energy Production (4hrs average sunlight per day)	0.6kWh	1.2kWh	1.2kWh
Size	765 x 628 x 35mm (30.1 x 24.7 x 1.4")	1496 x 670 x 35mm (59 x 26 x 1.4")	1496 x 670 x 35mm (59 x 26 x 1.4")
Weight	6kg (13.2lb)	11.7kg (25.7lb)	11.7kg (25.7lb)
IV Graph			

Notes:

- All shipments F.O.B. Draper, UT 84020
- Tycon Power Systems Solar Panels carry a 2 year limited warranty and a 25 year limited power output warranty

System Ordering:

- TPSHP-12-60** 12V 60W Solar Panel
- TPSHP-12-120** 12V 120W Solar Panel
- TPSHP-24-120** 24V 120W Solar Panel

Solar Mounts:

- TPSM-60-SP** Side of Pole mount for 60W Panel
- TPSM-120-SP** Side of Pole mount for 120W Panel
- TPSM-120x2-SP** Side of Pole mount for two 120W Panels



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