

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

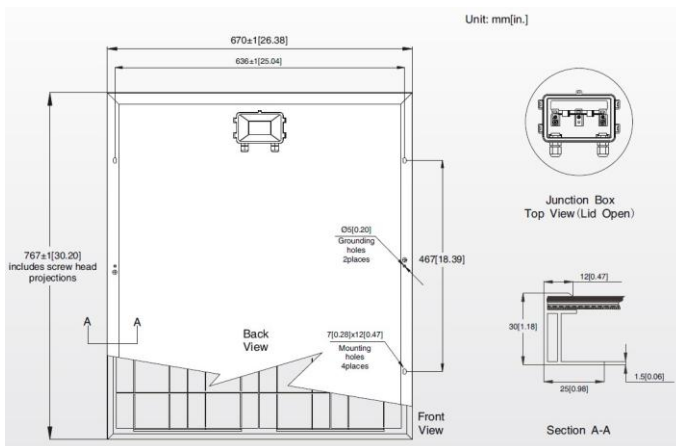
- Battery Charging Applications
- Surveillance Cameras
- Wireless Base Stations
- Outdoor Lighting
- On-Grid or Off-Grid systems
- Backup Power Systems



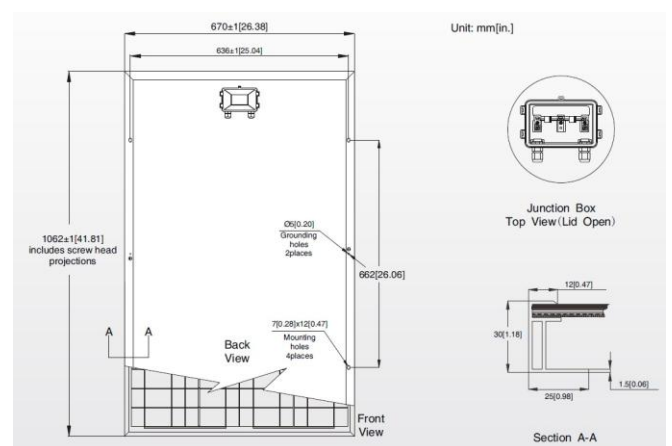
Description

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.



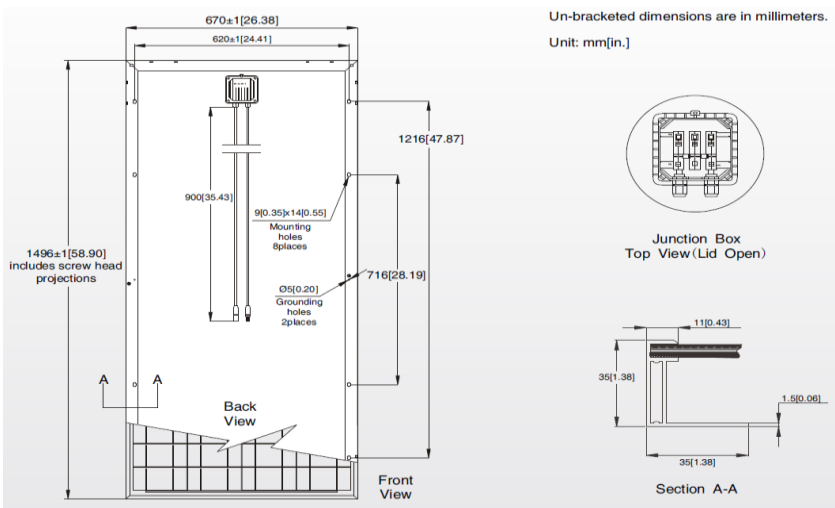
60W Solar Panel



85W Solar Panel

Specifications

	TPSHP-12-60	TPSHP-24-85	TPSHP-12-120	TPSHP-24-120
Maximum Power (+/-5%)	60W	85W	120W	120W
Voltage at Pmax (Vmp)	17.2V	34.4V	17.2V	34.4V
Current at Pmax (Imp)	3.49A	2.47A	6.98A	3.49A
Open Circuit Voltage (Voc)	21.6V	43.2V	21.6V	43.2V
Short Circuit Current (Isc)	3.86A	2.74A	7.72A	3.86A
Short Circuit I Temp Coeff	.065% / °C			
Open Circuit V Temp Coeff	-80mV / °C			
Output Power Temp Coeff	0.5%/°C			
Continuous Power Capability (6hrs average sunlight per day)	15W	21W	30W	30W
Operating Temperature	-40 to +85 C (-40 to 185 F)			
Size	767 x 670 x 30mm (30.2 x 26.4 x 1.2")	1062 x 670 x 30mm (42 x 26.4 x 1.2")	1496 x 670 x 35mm (59 x 26 x 1.4")	1496 x 670 x 35mm (59 x 26 x 1.4")
Weight	6.7kg (15lb)	8.9kg (20lb)	10.4kg (23lb)	10.4kg (23lb)
IV Graph				



120W Solar Panel

System Ordering:

- TPSHP-12-60** 12V 60W Solar Panel
- TPSHP-24-85** 24V 85W Solar Panel
- TPSHP-12-120** 12V 120W Solar Panel
- TPSHP-24-120** 24V 120W Solar Panel

Notes:

- All shipments F.O.B. Bluffdale, UT 84065
- Tycon Power Systems Solar Panels carry a 5 year limited Warranty

For further information contact:

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