

### Heavy Duty Solar Panels

#### Features

- Up to +5WP Positive Power Output Tolerance
- Excellent Low Light Performance
- Extremely Reliable. 5 Year Product Warranty. 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



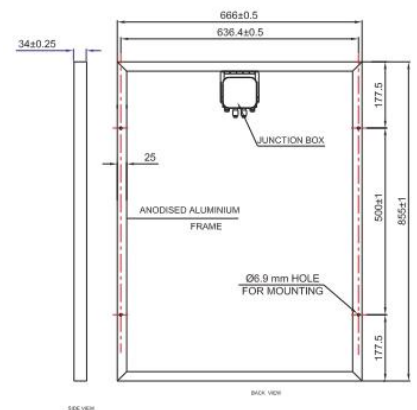
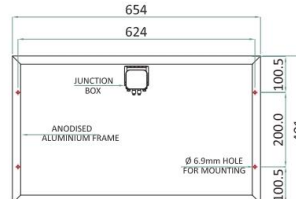
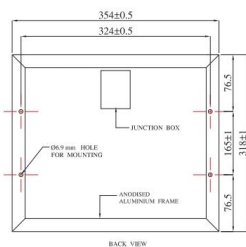
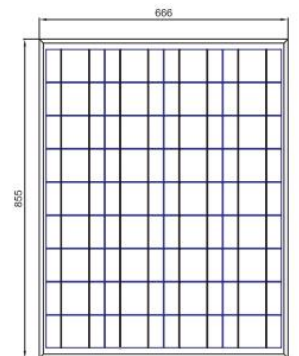
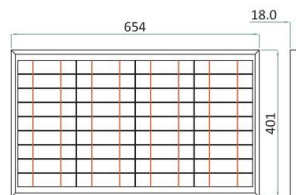
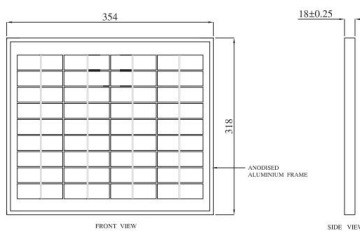
TPS-12-80W and TPS-12-30W and TPS-12-10W  
12V 80W, 30W and 10W Panels

#### Applications

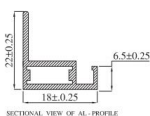
- Battery Charging Applications
- Surveillance Cameras
- Wireless Base Stations
- Outdoor Lighting
- Remote Sensors
- Backup Power Systems

#### Description

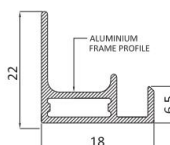
The TPS-W series solar panels are high efficiency 36 cell designs with excellent low light performance. The multicrystalline silicon solar cells are laminated with a TPT (Tedlar/Polyester/Tedlar) and EVA (Ethylene Vinyl Acetate) bi-layer for high reliability and long life. The cell array is sealed in 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.



TPS-12-10W



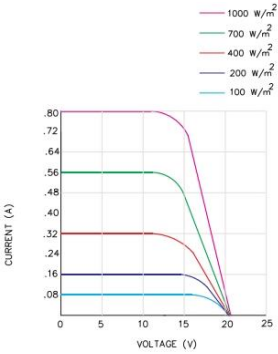
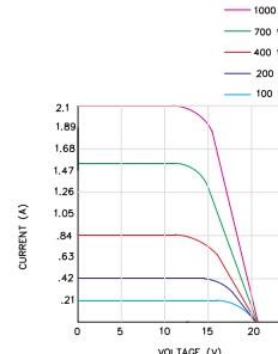
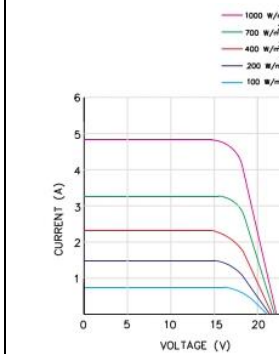
TPS-12-30W



TPS-12-80W



## Specifications

	TPS-12-10W	TPS-12-30W	TPS-12-80W
<b>Maximum Power (+/-5%)</b>	10W	30W	80W
<b>Voltage at Pmax (Vmp)</b>	17.85V	17.34V	18.09V
<b>Current at Pmax (Imp)</b>	0.62A	1.74A	4.43A
<b>Open Circuit Voltage (Voc)</b>	21.95V	21.62V	22.24V
<b>Short Circuit Current (Isc)</b>	0.69A	1.88A	4.76A
<b>Short Circuit I Temp Coeff</b>	.058% / °C		
<b>Open Circuit V Temp Coeff</b>	-0.31% / °C		
<b>Output Power Temp Coeff</b>	-0.41%/°C		
<b>Wind Survivability</b>	201kph (125mph)		
<b>Hailstone Survivability</b>	1" @ 50mph		
<b>Operating Temperature</b>	-40 to +85°C		
<b>Continuous Power Capability (6hrs average sunlight per day)</b>	2.5W	8W	20W
<b>Size</b>	354 x 318 x 18mm (13.9 x 12.5 x 0.71")	401 x 654 x 18mm (15.8 x 25.7 x 0.71")	855 x 666 x 34mm (33.7 x 26.2 x 1.3")
<b>Weight</b>	1.4kg (3.1lb)	3.2kg (7.1lb)	6.8kg (15.0lb)
<b>Warranty</b>	5 Year Product / 25 Year Output		
<b>IV Curves</b>			

### System Ordering:

**TPS-12-10W** 12V 10W Heavy Duty Solar Panel

**TPS-12-30W** 12V 30W Heavy Duty Solar Panel

**TPS-12-80W** 12V 80W Heavy Duty Solar Panel

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