

## TPS-12-35W

# **DATA SHEET**

# **Heavy Duty Solar Panel**

### **Features**

- 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
- 36" Output Cables with MC4 Solar Connectors for Easy Hookup

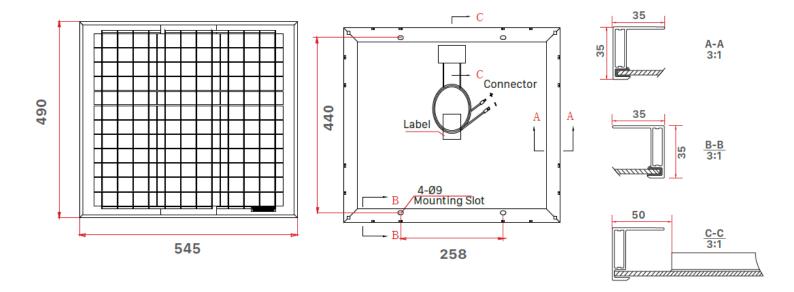
### **Applications**

- Battery Charging Applications
- Wireless Base Stations
- Remote Sensors
- Remote Gates

- Surveillance Cameras
- Outdoor Lighting
- Backup Power Systems
- Electric Fence

### **Description**

The TPS-12-35W solar panels are high efficiency 36 cell designs with excellent low light performance. The polycrystalline 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 6063-T5 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 12AWG x 900mm (36") outdoor rated cable terminated with MC4 solar connectors.



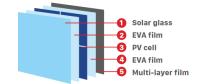
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**Specifications** 

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Maximum Power (+/-3%)	35W
Voltage at Pmax (Vmp)	16.92V
Current at Pmax (Imp)	2.07A
Open Circuit Voltage (Voc)	20.87V
Short Circuit Current (Isc)	2.19A
Short Circuit I Temp Coeff	+ 0.045% / °C
Open Circuit V Temp Coeff	-0.292% / °C
Output Power Temp Coeff	-0.408%/°C
Wind Survivability	201kph (125mph)
Hailstone Survivability	1" @ 50mph
Operating Temperature	-40 to +85°C
Continuous Power Capability (6hrs average sunlight per day)	8.75W
Size	490 x 545 x 35mm (19.3 x 21.5 x 1.4")
Weight	4kg (8.8lb)
Warranty	5 Year Product / 25 Year Output
IV Curve	Electrical Performance at 25°C, AM1.5  2.4  2.1  1000 W/m²  1.8  800 W/m²  1.2  0.9  0.6  0.3  0 3 6 9 12 15 18 21 24  Voltage (V)

## System Ordering:

TPS-12-35W 12V 35W Heavy Duty Solar Panel



### For further information contact:

Tyconsystems.com



