



# TPS-12-85W

## 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

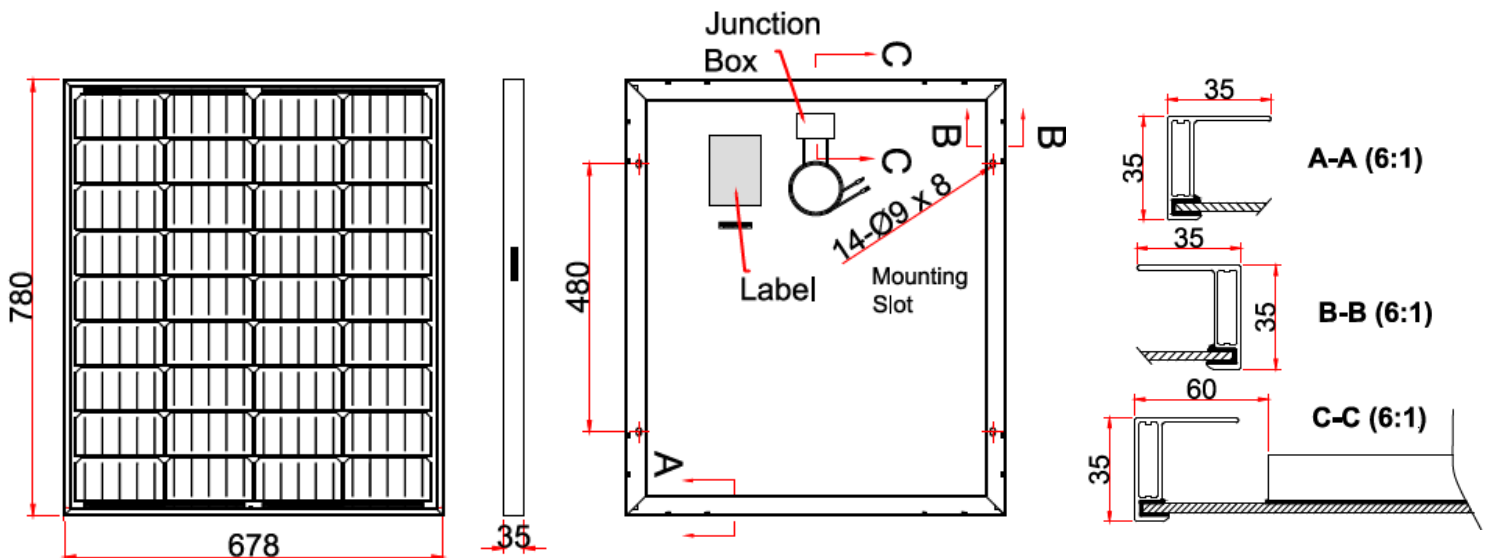


#### Applications

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

#### Description

The TPS-12-85W solar panels are high efficiency 36 cell designs with excellent low light performance. The monocrystalline 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.

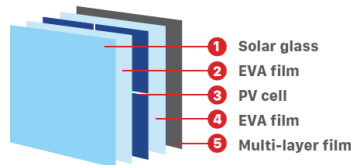


**Specifications**

TPS-12-85W	
Maximum Power (+/-3%)	85W
Voltage at Pmax (Vmp)	19.65V
Current at Pmax (Imp)	4.33A
Open Circuit Voltage (Voc)	23.7V
Short Circuit Current (Isc)	4.41A
Short Circuit I Temp Coeff	+ 0.039% / °C
Open Circuit V Temp Coeff	-0.307% / °C
Output Power Temp Coeff	-0.423%/°C
Wind Survivability	201kph (125mph)
Hailstone Survivability	1" @ 50mph
Operating Temperature	-40 to +85°C
Continuous Power Capability (6hrs average sunlight per day)	21.25W
Size	780 x 678 x 35mm (30.7 x 26.7 x 1.4")
Weight	6.5kg (14.3lb)
Warranty	5 Year Product / 25 Year Output
<b>IV Curve</b>	<p style="text-align: center;">Electrical Performance at 25°C, AM1.5</p>

**System Ordering:**

**TPS-12-85W** 12V 85W Heavy Duty Solar Panel



**For further information contact:**

Tyconsystems.com

