



TPS-12-100W

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 PV Solar Connectors for Easy Connections

Applications

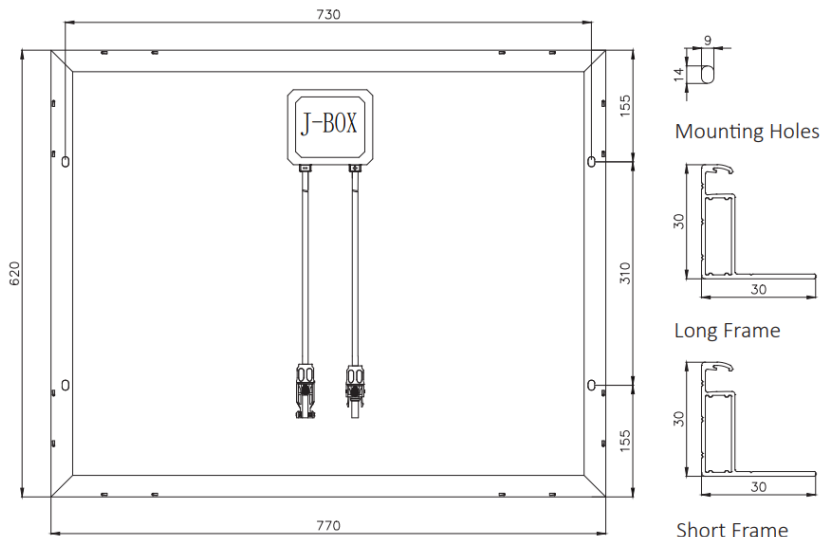
- Battery Charging Applications
- Wireless Base Stations
- Remote Sensors
- Remote Gates
- Surveillance Cameras
- Outdoor Lighting
- Backup Power Systems
- Electric Fence



Description

The TPS-12-100W utilizes advanced MBB half-cell technology, delivering more uniform current collection and significantly reducing internal heat loss for improved reliability and efficiency. Its 36 1/3-cell monocrystalline N-type design enables higher output power, with module performance reaching up to 100W, even in compact formats. Enhanced low-light response ensures superior energy production during mornings, evenings, and cloudy conditions.

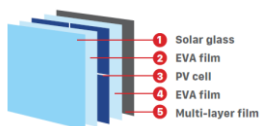
Built with N-type solar cells, the module naturally exhibits very low LID (Light-Induced Degradation) and excellent resistance to PID (Potential-Induced Degradation), maintaining long-term performance and maximizing power generation. These combined features make the module highly durable, efficient, and optimized for consistent energy yield in a wide range of environmental conditions.



Unit:mm Tolerance:±2mm

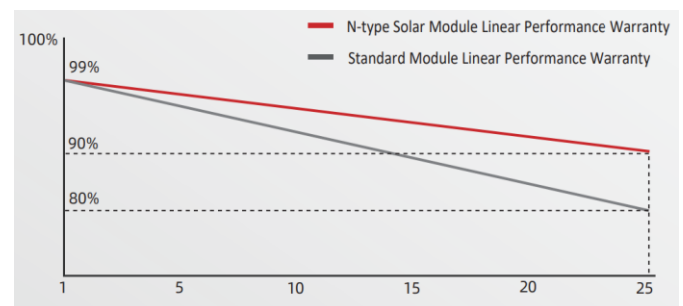
Specifications

TPS-12-100W	
Maximum Power (+/-3%)	100W
Voltage at Pmax (Vmp)	23.04V
Current at Pmax (Imp)	4.34A
Open Circuit Voltage (Voc)	27.72V
Short Circuit Current (Isc)	4.49A
Short Circuit I Temp Coeff	+ 0.04% / °C
Open Circuit V Temp Coeff	-0.23% / °C
Output Power Temp Coeff	-0.28%/°C
Wind Survivability	201kph (125mph)
Hailstone Survivability	1" @ 51mph
Operating Temperature	-40 to +85°C
Module Efficiency	21%
PV Cable Length with PV Connectors	914mm (36")
Size	770 x 620 x 30mm (30.3 x 24.4 x 1.18")
Weight	5.5kg (12.1lb)
Warranty	5 Year Product / 25 Year Output
IV Curve	



System Ordering:

TPS-12-100W 12V 100W Heavy Duty Solar Panel



For further information contact:

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