

Residential Roof

Utility Scale Ground Mounted

Half Cell:

- Half cell design allows the module to be operated in half of the original currer lowers the internal loss and decreases the CTM loss, generating more power.
- Topray Solar half cell operates in lower temperature, decreases the risk of hot spot and the loss due to temperature coefficient, enhancing the performance and reliability.
- Module circuit separated into two sections that are connected in parallel. Combined with built-in bypass diodes, providing better performance under shading scenario.
- Advanced laser cutting technology ensures no damage to the cell during cutting process.
- Encapsulated with our own Topray Solar glass with highest effective solar transmi 380nm to 1100nm of 94.5% certified by National Lab, enhancing the performance more operational hours during day to day usage.
- Equipped with anti-soiling film and hydrophilic coating on the front glass, Topray S of self-cleaning, ensuring maximum performance and requiring minimum manual cl
- Module certified by TUV
 - For SNOW ZONE III, withstand high level of wind loads(2400Pa) and snow loads(5400Pa) For PID test. No Potential Induced Degradation caused by High Voltage Stress. For salt mist corrosion, ammonia corrosion test.



Mechanical Specification

| Cell Type | Poly Crystalline 157x78.5mm |
|------------------|--|
| Numbers of cells | 144 |
| Dimension | 1992X992X35mm |
| Weight | 20.5kg |
| Front Glass | 3.2 mm low iron tempered glass |
| Frame | Anodized aluminum |
| Junction Box | IP 67, with 3 bypass diodes |
| Connector | MC4 compatible |
| Output Cables | TUV tested,length 350mm,4.0mm ² |

| Module Series | TPSh-M2P144SH1W | | | |
|---------------------------------|-----------------|--------|--------|--------|
| Maximum Power at STC(Pmax) (W) | 330 | 335 | 340 | 345 |
| Short Circuit Current(Isc) (A) | 9.21 | 9.29 | 9.38 | 9.46 |
| Open Circuit Voltage(Voc) (V) | 45.90 | 46.10 | 46.25 | 46.42 |
| Maximum Power Current(Impp) (A) | 8.84 | 8.93 | 9.05 | 9.16 |
| Maximum Power Voltage(Vmpp) (V) | 37.33 | 37.52 | 37.57 | 37.67 |
| Module Efficiency | 16.70% | 16.95% | 17.21% | 17.46% |
| Power Tolerance | | 0/+ 3% | | |

Mechanical drawings (mm)

TPSh-M2P144SH1W

325-345W



TEMPERATURE CHARACTERISTICS

| Nominal Operating Cell Temperature(NOCT) | 44±2°C |
|--|------------|
| Temperature Coefficient of Pmax() | -0.4%/K |
| Temperature Coefficient of Voc() | -0.34%/K |
| Temperature Coefficient of Isc() | + 0.05% /K |

PACKING CONFIGURATION

| Container | 20'GP | 40'G P | 40'HQ |
|----------------------|-------|--------|-------|
| Pieces per container | 310 | 682 | 726 |

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