



# TPSh-M12M132SH1W



## Half Cell:

Half cell design allows the module to be operated in half of the original current, 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

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## Qualifications and Certification

# TPSh-M12M132SH1W

## 630-670W

### Mechanical Specification

Cell Type	Mono Crystalline 210x105 mm
Numbers of cells	132
Dimension	2384x1303x35mm
Weight	32KG
Front Glass	3.2 mm low iron tempered glass
Frame	Anodized aluminum
Junction Box	IP 67, with 3 bypass diodes
Connector	MC4 comatible
Output Cables	TUV tested,length 450mm,4.0mm <sup>2</sup>

Module Series	TPSh-M12M132SH1W				
Maximum Power at STC(Pmax) (W)	630	640	650	660	670
Short Circuit Current(Isc) (A)	18.14	18.21	18.33	18.38	18.48
Open Circuit Voltage(Voc) (V)	44.52	44.92	45.25	45.74	46.11
Maximum Power Current(Impp) (A)	17.03	17.13	17.23	17.29	17.38
Maximum Power Voltage(Vmpp) (V)	37.00	37.37	37.74	38.18	38.56
Module Efficiency	20.28%	20.60%	20.92%	21.25%	21.57%
Power Tolerance	0/+3%	0/+3%	0/+3%	0/+3%	0/+3%

### Mechanical drawings (mm)



### TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature(NOCT)	44±2°C
Temperature Coefficient of Pmax( )	-0.4%/K
Temperature Coefficient of Voc( )	-0.37%/K
Temperature Coefficient of Isc( )	+0.05%/K

### PACKING CONFIGURATION

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