



A Division of Haithabu Far East Limited

SUMAX TS160-185M

Solar Photovoltaic Module

HIGHLIGHTS OF SUMAX PHOTOVOLTAIC MODULES

SUMAX Solar Photovoltaic Module TS160-185M are connected in series by 72 pieces of 125mm * 125mm mono crystalline silicone cells. The product performance is produced according to IEC62125 Ed.2 and IEC61730 international standard. Available modules sizes are 165W, 170W, 175W, 180W and 185W.

FEATURES AND ADVANTAGES

- Tempered patterned low iron glass
- Anti-ageing EVA and excellent anti-climate back sheet
- Anodized excellent aluminum alloy frame
- High conversion efficiency, long life, convenient installation,
- wind protection, hail stone protection
- Output power warranty for 25 years

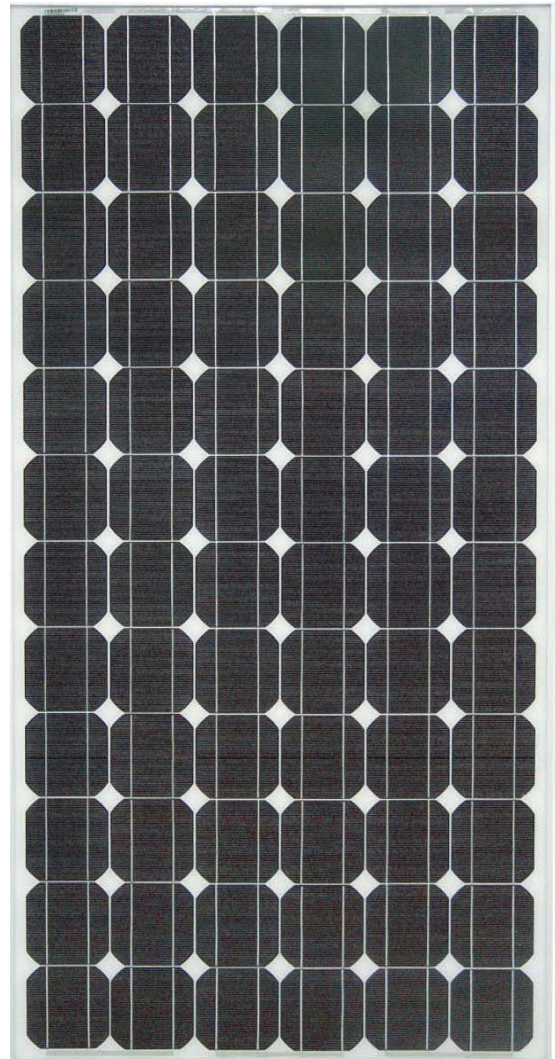
APPLICATIONS

Large on-/off-grid solar power stations
Commercial / Industrial roof-top systems
Residential roof-top systems
Rural electrification
Other industrial and commercial applications

PERFORMANCE WARRANTY

5 year limited warranty on material and workmanship.

Loss of output is not more than 10% of the minimum warranty value of the product specification within 10 years, 20% after 25 years.

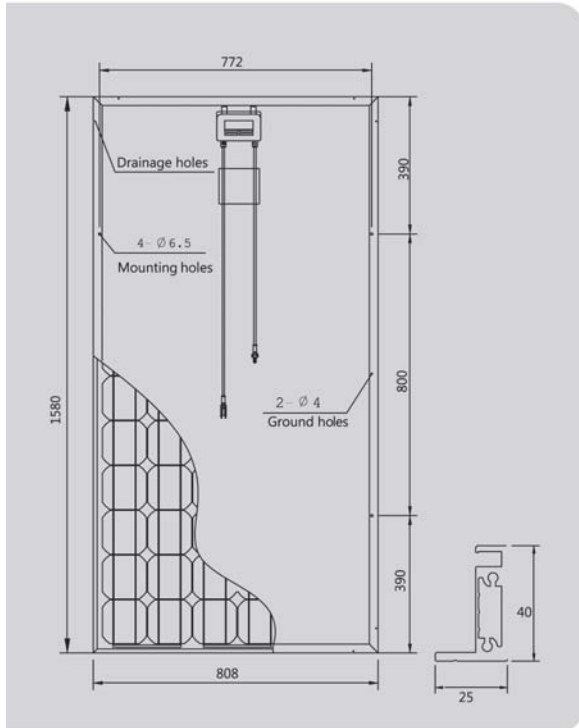


Haithabu Far East Ltd. reserves the right to modify these specifications without notice.

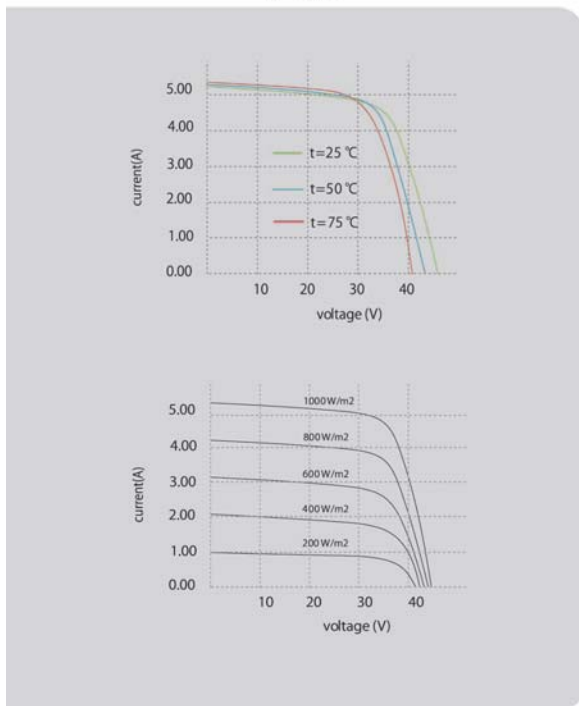


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▪ Dimensions



▪ I-V Curves



Specification

Cell	Mono-crystalline 125mm × 125mm
No. of cells and connections	72 in series (6 × 12)
Weight	17KG
Dimensions	1580 × 808 × 40 (mm)
Carton	1645 × 878 × 105 (mm)/2pcs
Pallets	1670 × 930 × 150 (mm)/38pcs
Produced in accordance with	IEC 61215 Ed.2 IEC 61730
ROHS	IECQ Certification

Electrical Characteristics

Power	165Wp	170Wp	175Wp	180Wp
Open circuit voltage	43.7V	43.9V	44.0V	44.5V
Maximum power voltage	35.0V	35.5V	35.6V	36.0V
Short circuit current	5.14A	5.25A	5.40A	5.45A
Maximum power current	4.71A	4.79A	4.92A	5.00A
Encapsulated solar cell efficiency	15.5%	16.0%	16.5%	17.0%
Insulation	≥50MΩ			
Maximum system voltage	1000V			
series fuse rating	10A			
Bypass diode	3 diodes(7.0A)			
Connector	MC4 // YS-188-9, YS-189-8			

STC: Irradiance 1000W/m², module temperature 25 °C, AM = 1.5

Physical Characteristics

Operating temperature	-40°C to +90°C
Storage temperature	-40°C to +90°C
Type of output terminal	Lead wire with connector
Pressure Bearing	≤5400Pa
Wind Bearing	≤2400Pa
Hail Impact Test	25 mm diameter ice ball at 23,0 m/s , directed at 11 impact locations

Temperature Coefficients

NOCT	45°C ± 2°C
Temperature coefficient of Isc	+0.05%/°C
Temperature coefficient of Voc	-0.34%/°C
Temperature coefficient of Pm	-0.5%/°C
Power output Tolerance	±3%