



A Division of Haithabu Far East Limited

SUMAX TS45-55M

Solar Photovoltaic Module

HIGHLIGHTS OF SUMAX PHOTOVOLTAIC MODULES

SUMAX Solar Photovoltaic Module TS45-55M are connected in series by 36 pieces of 125mm * 78mm mono crystalline silicone cells. The product performance is produced according to IEC62125 Ed.2 international standard. Available modules sizes are 45W, 50W and 55W.

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

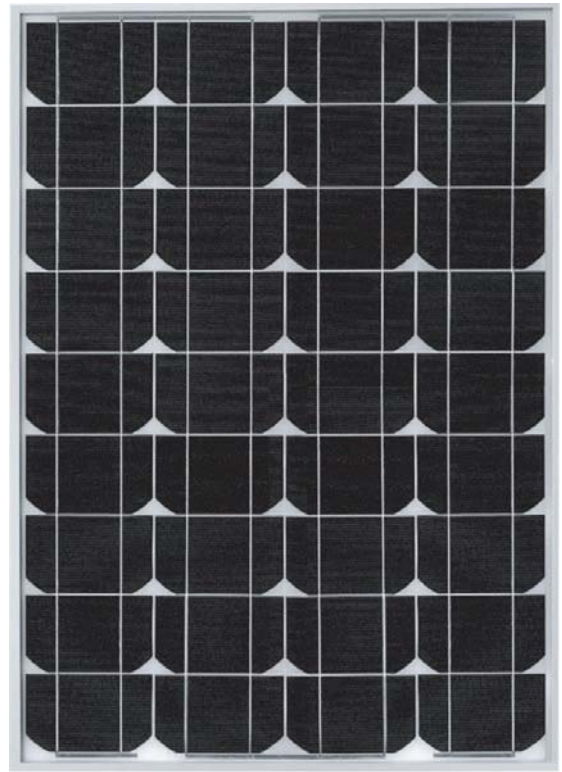
APPLICATIONS

- Microwave / Radio repeater stations
- Aviation obstruction lights
- Electrification of villages in remote areas
- 12V and 24V battery charging systems
- Medical facilities in rural areas
- Water pumping systems
- Emergency communication systems
- Railroad signals

PERFORMANCE WARRANTY

1 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.

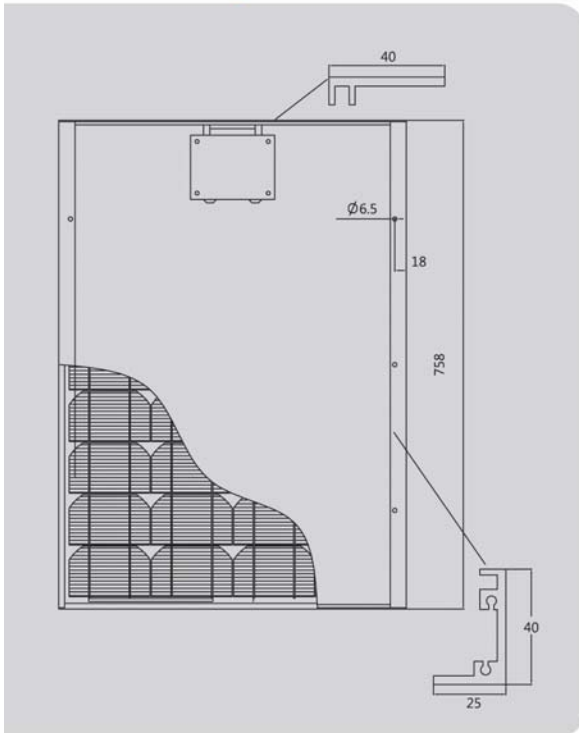


Haithabu Far East Ltd. reserves the right to modify these specifications without notice.

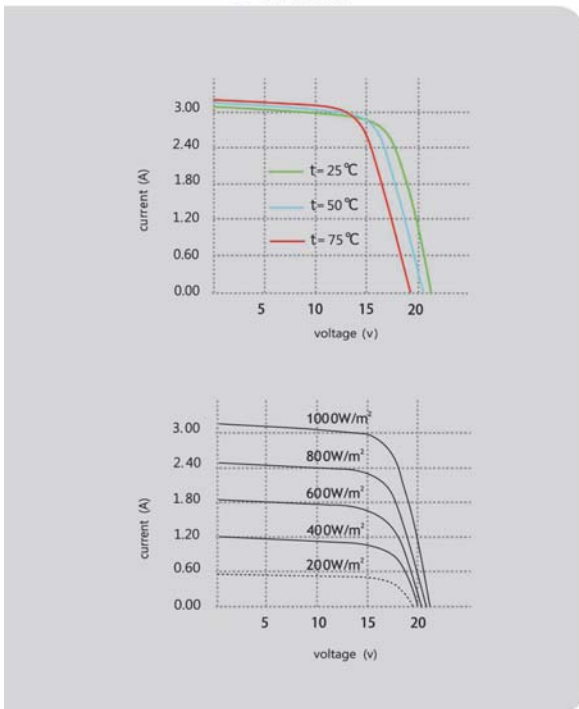


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▪ Dimensions



▪ I-V Curves



Specification

Cell	Mono-crystalline 125mm × 78mm
No. of cells and connections	36 in series (4 × 9)
Weight	5.9KG
Dimensions	758 × 538 × 40 (mm)
Carton	588 × 236 × 813 (mm)/4pcs
Pallets	1670 × 930 × 150 (mm)
Produced in accordance with	IEC 61215 Ed.2
ROHS	IECQ Certification

Electrical Characteristics

Power	45Wp	50Wp	55Wp
Open circuit voltage	21.7V	21.9V	22.1V
Maximum power voltage	17.4V	17.75V	17.9V
Short circuit current	2.84A	3.09A	3.32A
Maximum power current	2.59A	2.82A	3.07A
Encapsulated solar cell efficiency	13.5%	15.0%	16.5%
Insulation	> 100MΩ		
Maximum system voltage	700V		

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
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	± 5%