



A Division of Haithabu Far East Limited

## SUMAX TS5M

Solar Photovoltaic Module

### **HIGHLIGHTS OF SUMAX PHOTOVOLTAIC MODULES**

SUMAX Solar Photovoltaic Module TS5M is connected in series by 36 pieces of 62.5mm \* 25mm mono crystalline silicone cells. The product performance is produced according to IEC62125 Ed.2 international standard.

### **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

Electrification of villages in remote areas

Medical facilities in rural areas

Emergency communication systems

Aviation obstruction lights

12V and 24V battery charging systems

Water pumping systems

Railroad signals

### **PERFORMANCE WARRANTY**

One year limited warranty on material and workmanship.

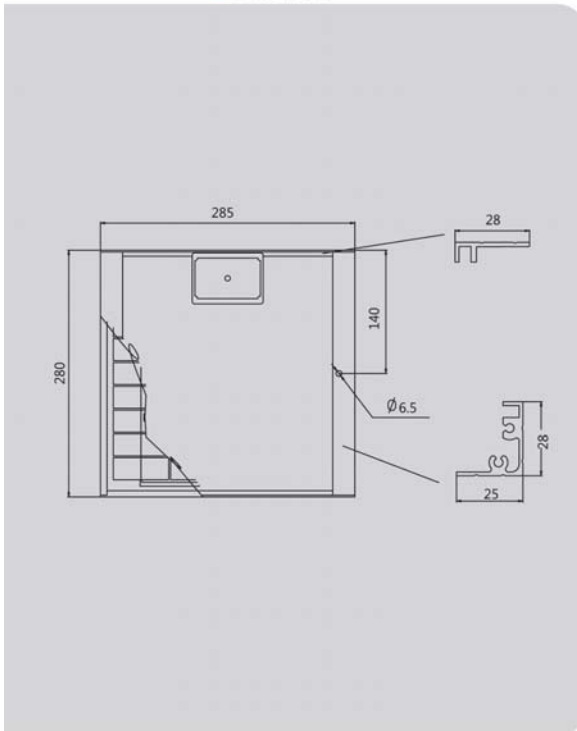
Loss of output is not more than 10% of the minimum warranty value of the product specification within 10 years, 20% after 25 years.

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

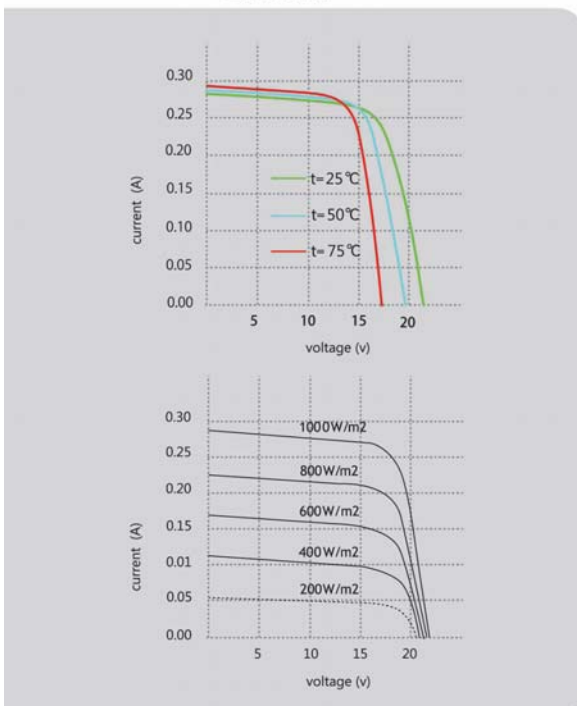


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■ Dimensions



■ I-V Curves



### Specification

Cell	Mono-crystalline 62.5mm x 25mm
No of cells and connections	36 in series (4 x 9)
Weight	1.2KG
Dimensions	285 x 280 x 28 (mm)
Carton	340 x 258 x 340 (mm)/6pcs
Pallets	1670 x 930 x 150 (mm)
Produced in accordance with	IEC 61215 Ed.2
ROHS	IECQ Certification

### Electrical Characteristics

Power	5Wp
Open circuit voltage	20.5V
Maximum power voltage	17.0V
Short circuit current	0.32A
Maximum power current	0.29A
Encapsulated solar cell efficiency	14%
Insulation	> 400MΩ
Maximum system voltage	700V

STC: Irradiance 1000W/m<sup>2</sup>, 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%