



A Division of Haithabu Far East Limited

SUMAX TS210-240M

Solar Photovoltaic Module

HIGHLIGHTS OF SUMAX PHOTOVOLTAIC MODULES

SUMAX Solar Photovoltaic Module TS210-240M are connected in series by 60 pieces of 156mm * 156mm mono crystalline silicone cells. The product performance is produced according to IEC62125 Ed.2 and IEC61730 international standard. Available modules sizes are 210W, 220W, 230W and 240W.

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

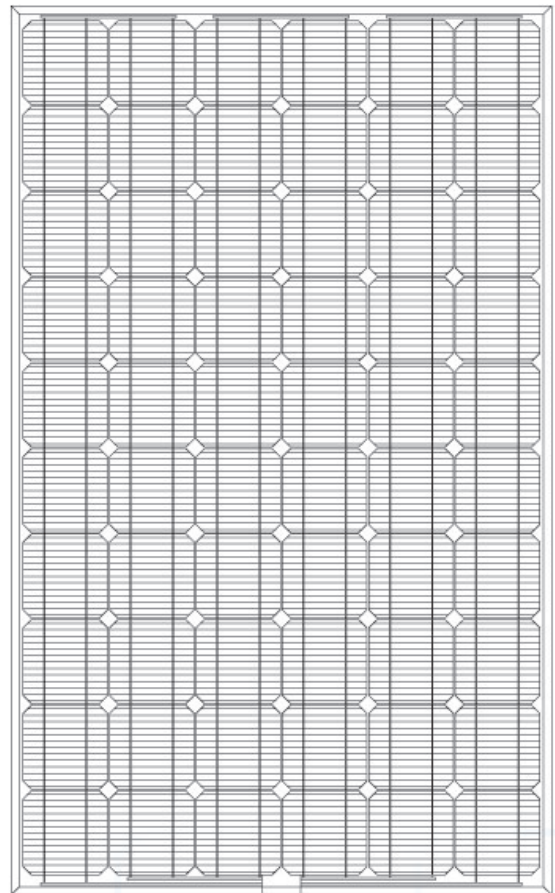
APPLICATIONS

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.

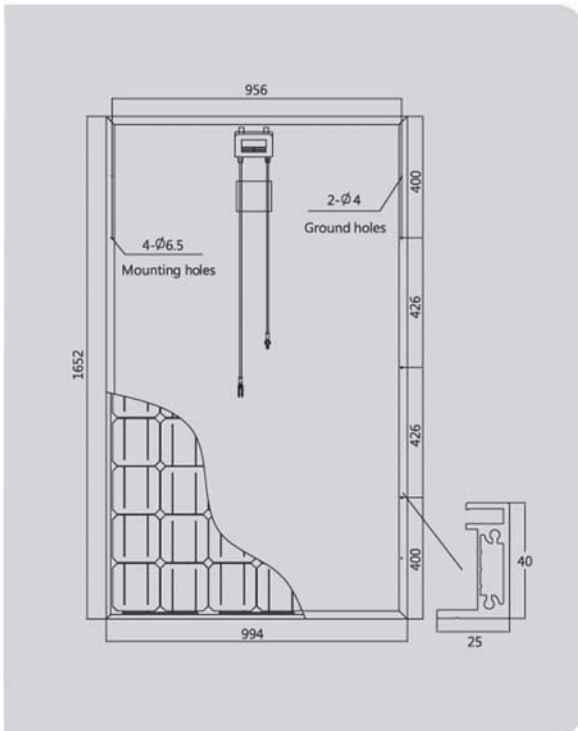


Haithabu Far East Ltd. reserves the right to modify these specifications without notice.

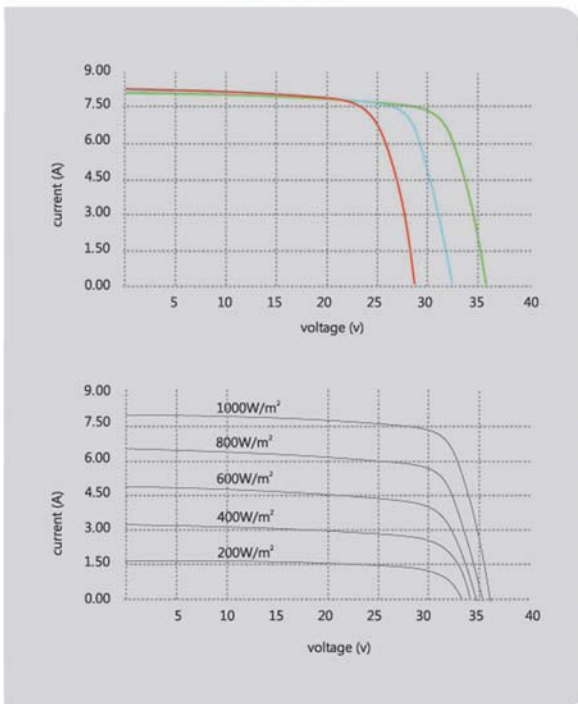


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■ Dimensions



■ I-V Curves



Specification

Cell	Mono-crystalline 156mm × 156mm		
No. of cells and connections	60 in series (6 × 10)		
Weight	20KG		
Dimensions	1652 × 994 × 50 (mm)		
Carton	1720 × 1064 × 125 (mm)/2pcs		
Pallets	1750 × 1094 × 135 (mm)/38pcs		
Produced in accordance with	IEC 61215 Ed.2	IEC 61730	
ROHS	IECQ Certification		

Electrical Characteristics

Power	210Wp	220Wp	230Wp	240Wp
Open circuit voltage	35.15V	36.05V	36.25V	36.45V
Maximum power voltage	28.8V	29.50V	29.70V	29.95V
Short circuit current	7.98A	8.15A	8.45A	8.85A
Maximum power current	7.29A	7.45A	7.74A	8.13A
Encapsulated solar cell efficiency	14.5%	15.0%	15.7%	16.2%
Insulation	> 100MΩ			
Maximum system voltage	1000V			
voltage standoff	AC 2000 DC 3000V			
series fuse rating	15A			

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	> 2400Pa
Wind Bearing	> 5400Pa
Hail Impact Test	225g steel ball drops from height of 1m

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%