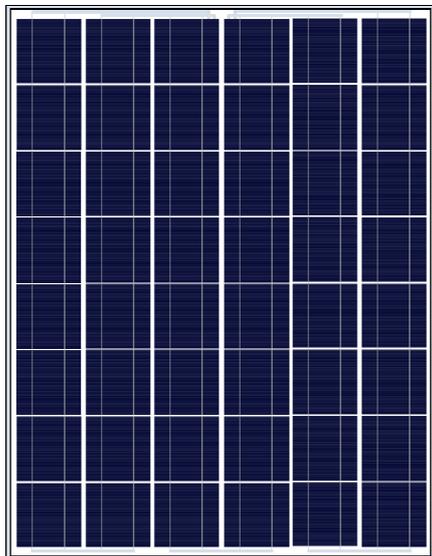


Standard Module



GSM6 6 x8 Series 6" Cell Module



### Features

- ✿ 48 presorted high efficient multi-crystalline silicon solar cells.
- ✿ Long term stability by quality control and exact tuning of components.
- ✿ Sorting limit of module classification to 0/+4.99 Watt.
- ✿ TUV mechanical load test certificate upon 5400 Pa.

### Quality and safety

- ✿ 5 years material and workmanship warranty.
- ✿ 10 years of 90% and 25 years of 80% power output limited warranty.
- ✿ Rigorous quality control meeting the highest international standards: ISO 9001 and ISO 14001.
- ✿ Certificated by IEC 61215 & IEC 61730 standard and conformity to CE.



Electrical characteristics under standard test condition (STC) <sup>1</sup>			
Typical power (Pmax) <sup>2</sup>	180W	185W	190W
Voltage at typical power (Vmp)	23.72V	23.99V	24.31V
Current at typical power (Imp)	7.59A	7.71A	7.82A
Open circuit voltage (Voc)	28.94V	29.05V	29.39V
Short circuit current (Isc)	8.10A	8.25A	8.35A
Maximum system voltage	1000 V		
Fuse rating	15 A		
Application	DC 24 V system		
System cell	156mm*156mm Multi-crystalline silicon		
No. of cells and connections	48 PCS in series (6 × 8)		

1. STC: AM1.5, 1000 W/m<sup>2</sup>, cell temperature of 25 °C.
2. Power tolerance at maximum power under STC condition = ± 3%.

Parameters of the thermal characteristics	
NOCT (Nominal Operating Cell Temperature)	47±2 °C
Temperature coefficient $\alpha$ of current Isc	0.0254 %/°C
Temperature coefficient $\beta$ of voltage Voc	-0.3003 %/°C
Temperature coefficient $\gamma$ of peak power Pmax	-0.4147 %/°C

Absolute maximum ratings	
Operating temperature	-40 to +85 °C
Storage temperature	-40 to +85 °C

Mechanical characteristics		
Dimension (Length*Width*Thickness)	1336 mm * 992 mm * 40 mm	
Weight	Approx. 15.2 kg	
Packing configuration		
Size of pallet (carton)	1382 mm * 1114 mm * 105 mm	
Container size	20 ft.	40 ft.
Pallets per container	16	32
Pieces per container	400	800
Construction	High transmission low-iron tempered glass, 3.2 mm Encapsulates: EVA Frame : Clear anodized aluminum, AL6063-T5	

Junction box	IP65, weatherproof
Bypass diodes	3 diodes to avoid power decreasing by shade
Output cable	4 mm <sup>2</sup> cable with polarized weatherproof connectors Negative 1000 mm, Positive 1000 mm
Cable extraction force	>400 Newton
Connector	IP67

#### Performance at variable irradiance

- ☀ Module efficiency at 200 W/m<sup>2</sup>, 25 °C is lower than that at STC by approximately 6.3% (relative).

#### I-V curves for 180W Module

