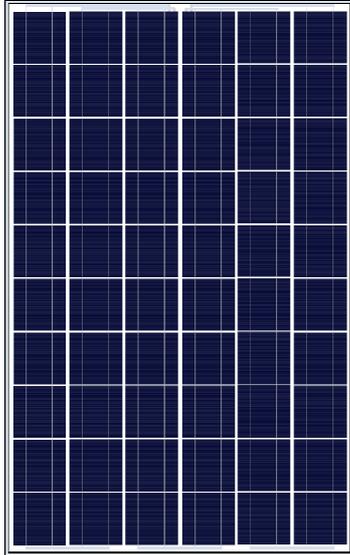


## Standard Module

### GSM6 6 x10 Series 6" Cell Module



#### Features

- ✿ 60 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.
- ✿ Certificated by UL1703/ULC1703 standard and listed on CEC.



Electrical characteristics under standard test condition (STC) <sup>1</sup>			
Typical power (Pmax) <sup>2</sup>	230W	235W	240W
Voltage at typical power (Vmp)	29.91V	30.24V	30.50V
Current at typical power (Imp)	7.69A	7.77A	7.87A
Open circuit voltage (Voc)	36.26V	36.60V	36.86V
Short circuit current (Isc)	8.23A	8.29A	8.40A
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	60 PCS in series (6 × 10)		

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	0.075 %/°C
Temperature coefficient $\beta$ of voltage Voc	-0.312 %/°C
Temperature coefficient $\gamma$ of peak power Pmax	-0.405%/°C

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

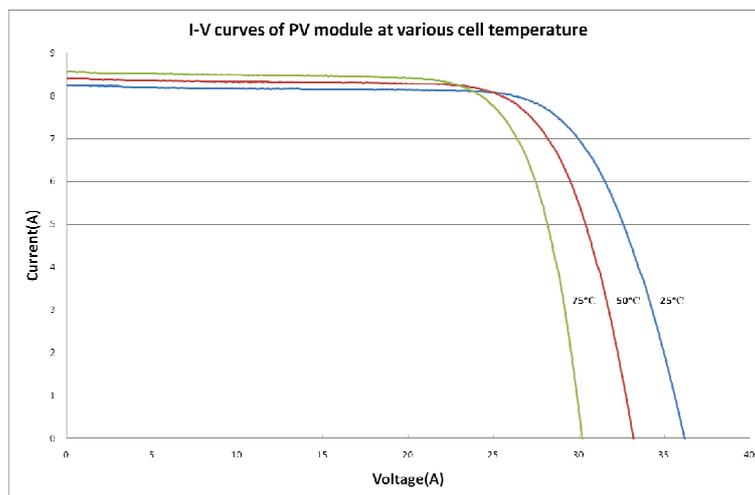
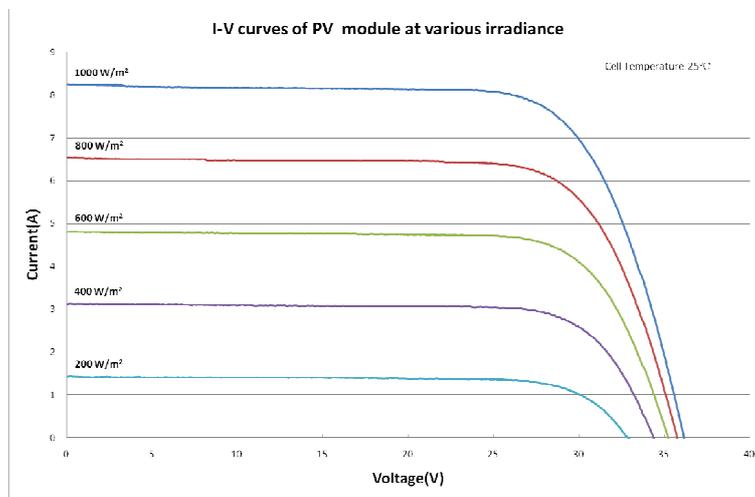
Mechanical characteristics		
Dimension (Length*Width*Thickness)	1652 mm * 992 mm * 40 mm	
Weight	Approx. 18.8 kg	
Packing configuration		
Size of pallet (carton)	1698 mm * 1114 mm *105 mm	
Container size	20 ft.	40 ft.
Pallets per container	12	28
Pieces per container	300	700
Construction	High transmission 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

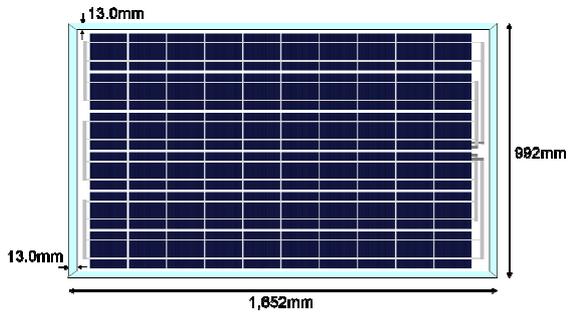
- ☀ Module efficiency at 200 W/m<sup>2</sup>, 25 °C is lower than that at STC by approximately 6.3% (relative).

### I-V curves for 230W Module



# Module dimensions

## Front View



## Side View



## Back View

