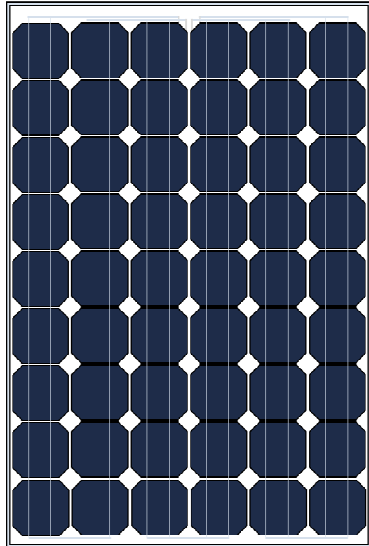


## Standard Module



GSS6 6 x9 Series 6" Cell Module (220, 225, 230, 235, 240 Wp)



### Features

- ✱ 54 presorted high efficient mono-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>	220W	225W	230W	235W	240W
Voltage at typical power (Vmp)	27.69V	27.82V	27.99V	28.15V	28.30V
Current at typical power (Imp)	7.95A	8.09A	8.22A	8.35A	8.48A
Open circuit voltage (Voc)	33.57V	33.67V	33.78V	33.89V	33.97V
Short circuit current (Isc)	8.56A	8.65A	8.78A	8.89A	9.00A
Module Efficiency	14.84%	15.18%	15.52%	15.86%	16.19%
Maximum system voltage	1000 V				
Fuse rating	15 A				
Application	DC 24 V system				
System cell	156mm*156mm Mono-crystalline silicon				
No. of cells and connections	54 PCS in series (6 × 9)				

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	0.063 %/°C
Temperature coefficient $\beta$ of voltage Voc	-0.328 %/°C
Temperature coefficient $\gamma$ of peak power Pmax	-0.412 %/°C

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

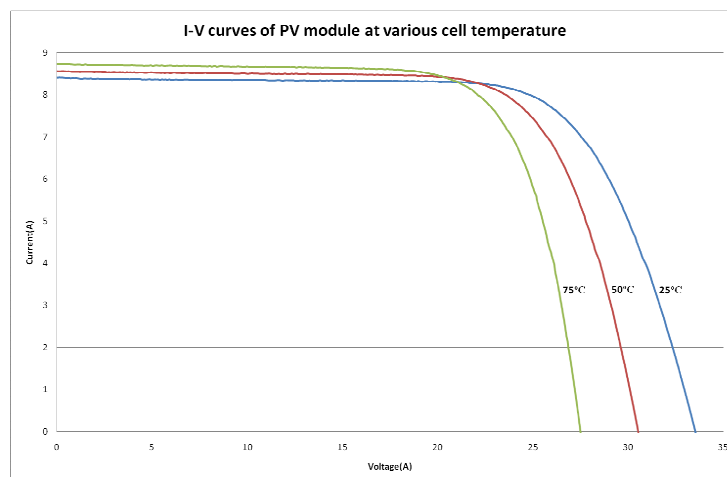
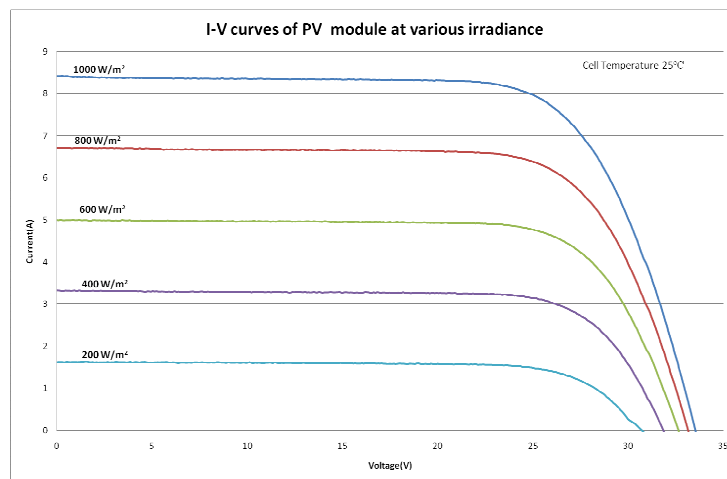
Mechanical characteristics		
Dimension (Length*Width*Thickness)	1494 mm * 992 mm * 40 mm	
Weight	Approx. 17.3 kg	
Packing configuration		
Size of pallet (carton)	1540 mm * 1114 mm *105 mm	
Container size	20 ft.	40 ft.
Pallets per container	14	30
Pieces per container	350	750
Construction	High transmission 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

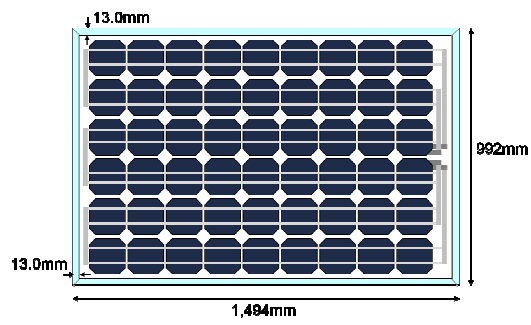
- ☀ Module efficiency at 200 W/m<sup>2</sup>, 25 °C is lower than that at STC by approximately 6.3% (relative).

#### I-V curves for 220W Module

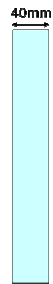


## Module dimensions

### Front View



### Side View



### Back View

