

# GS-50 GS-55 Solar Module

## Quality and Safety

- CE Certified
- Safety Class II Certified
- IEC 61646 Certified
- IEC 61730 Certified
- Manufactured in ISO9001 Certified Facilities
- UL 1703 Certified
- MCS Certified
- RoHS Certified
- TÜV Certified



3184653  
Conforms to UL STD NO.1703  
Certified to CSA STD ULCOORD-C1703-01



## Configuration Characteristics

Module type	GS-50	GS-55
Type of Solar Cells	a-Si Double Junction	a-Si Triple Junction
Dimensions	1245*635mm	
Thickness	7.5mm	
Weight	approx. 14.4kg	
Area	0.79m <sup>2</sup>	
Cordplate	IP67	
Front panel	3.2mm float glass	
Back panel	4.0mm float glass	
Output cable	750mm	
Encapsulant	Anti-water-based polymer	

## Electrical Characteristics at STC (1000W/m<sup>2</sup>, 25°C, AM1.5)

	GS-50	GS-55
Maximum system voltage (V)	1000V	
Maximum power (Pmax)	50W	55 W
Maximum power voltage (Vmp)	43V	67V
Maximum power current (Imp)	1.17A	0.82A
Open circuit voltage (Voc)	62V	86V
Short circuit current (Isc)	1.42A	1.01A
Maximum source circuit fuse (Icr)	3A	1.5A

## Electrical Characteristics at NOCT (800W/m<sup>2</sup>, 45°C, AM1.5)

	GS-50	GS-55
Maximum power (Pmax)	35.5W	42.2W
Maximum power voltage (Vmp)	38.6V	62.9V
Maximum power current (Imp)	0.92A	0.67A
Open circuit voltage (Voc)	56.1V	80.15V
Short circuit current (Isc)	1.14A	0.83A

The above data represents stabilized electrical module performance at standard test conditions (STC -1000W/m<sup>2</sup>, spectrum AM1.5, 25 °C temperature).

Initial power (Wp) may be approximately 10-18% higher than nominal power(Wp).  
25 years power performance guarantee(90% within 10 years and 80% within 25 years).

Temperature Coefficients		
Temperature coefficients of Pm (%)	-0.22%/°C	-0.20%/°C
Temperature coefficients of Voc	-0.33%/°C	-0.34%/°C
Temperature coefficients of Isc (%)	+0.09%/°C	+0.12%/°C

