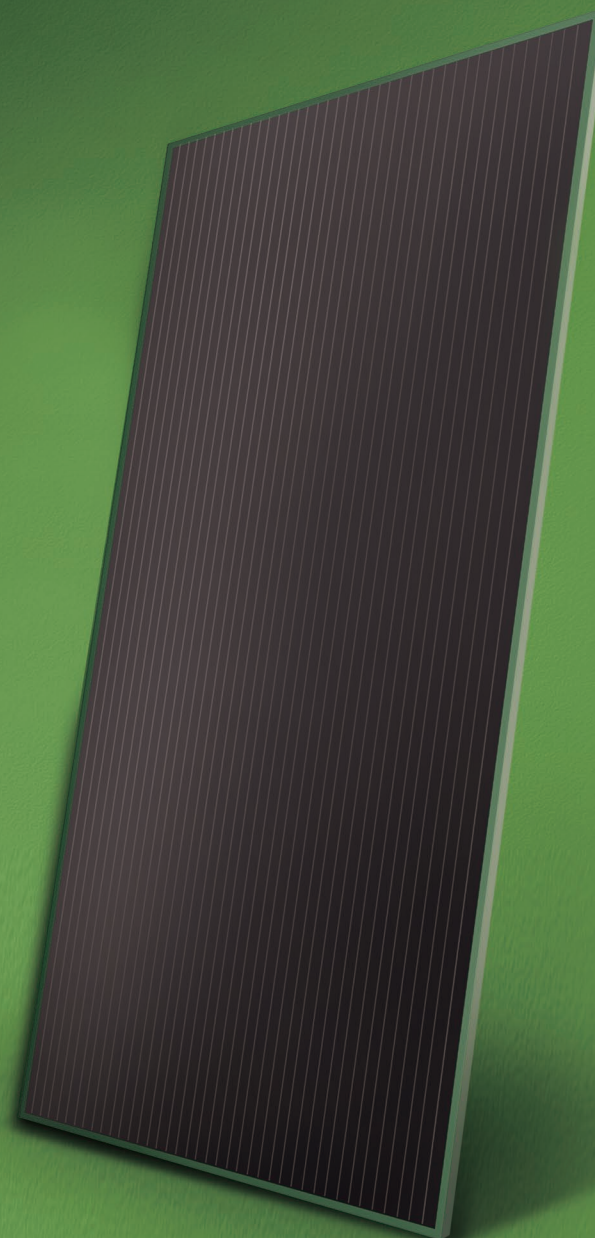


# GS-50 Solar Module

## Quality and Safety

- CE Compliant
- Safety Class II Compliant
- IEC 61646 Compliant
- IEC 61730 Compliant
- Manufactured in ISO9001 Compliant Facilities
- RoHS Compliant



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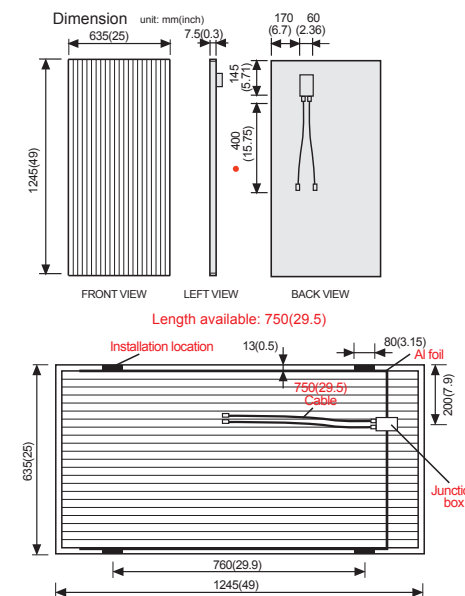
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## Configuration Characteristics

Module type	GS-50
Cell type	a-Si, double junction
Length	1245mm (49")
Width	635mm (25")
Thickness	7.5mm (0.3")(excluding junction box)
Weight	Approx. 14.4kg (31.7lbs)
Area	0.79m <sup>2</sup> (8.5ft <sup>2</sup> )
Cordplate	IP67
Front panel	3.2mm (0.13") float glass
Back panel	4.0mm (0.16") float glass
Output cables	400mm (15.7") or 750mm (29.5")
Encapsulant	Anti-water-based polymer



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

Module type		GS-50
Maximum system voltage	V <sub>sys</sub> (V)	1000
Normal power (+/- 5%)	P <sub>max</sub> (W)	50
Voltage at P <sub>max</sub>	V <sub>mp</sub> (V)	43
Current at P <sub>max</sub>	I <sub>mp</sub> (A)	1.17
Open circuit voltage	V <sub>oc</sub> (V)	62
Short circuit current	I <sub>sc</sub> (A)	1.42
Maximum Source Circuit Fuse	I <sub>cr</sub> (A)	3

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

Module type		GS-50
Maximum power	P <sub>max</sub> (W)	35.5
Voltage at P <sub>max</sub>	V <sub>mp</sub> (V)	38.6
Current at P <sub>max</sub>	I <sub>mp</sub> (A)	0.92
Open circuit voltage	V <sub>oc</sub> (V)	56.1
Short circuit current	I <sub>sc</sub> (A)	1.14

## Temperature Coefficients

Maximum output power (W)	-0.22% /°C
Open circuit voltage (V)	-0.33% /°C
Short circuit current (A)	+0.09% /°C

The above data represents stabilized electrical module performance at standard test conditions (STC -1000W/m<sup>2</sup>, spectrum AM 1.5, 25°C temperature).

Initial power(W<sub>ip</sub>) may be approximately 10-18% higher than nominal power(W<sub>p</sub>).  
25 years performance warranty (90% within 10 years and 80% within 25 years).