



General

1	72 High-efficient monocrystalline solar cells (156*156 mm) per module, 6 strings, 3 bypass-diodes
2	Front glass: 3.2 mm, high transmissivity low-iron toughened glass
3	Frame: anodized aluminum

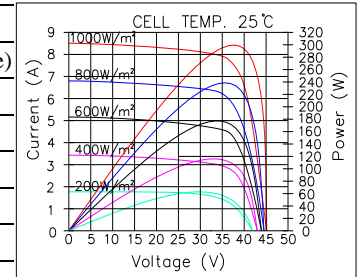
Connection

4	Junction box: plastic, water resistant, IP65, 130*105*30 mm
5	Cabel: solar cable 4 mm ² , 1.2 m (47.24 in)
6	Connectors: plug type, MC4 compatible

Electrical Characteristics(STC*)

7	Maximum power	P _{MPP}	300W
8	Tolerance		±3% (0- +3% achievable)
9	Open-circuit voltage	U _{OC}	45.14V
10	Short-circuit current	I _{SC}	8.51A
11	Voltage at Pmax	U _{MPP}	37.66V
12	Current at Pmax	I _{MPP}	7.97A
13	Cell temperature	T _{NOCT}	45°C±2°C
14	Module efficiency		15.46%
	Module efficiency at low irradiance		2.90%
15	Measured voltage at P _{MPP} tolerance: ±3%; other values tolerance: ±3%		

Characteristics Curve



*STC (Standard-Testing Conditions): Irradiance level 1,000 W/m²; Air-Mass (AM) 1.5; cell temperature 25°C;

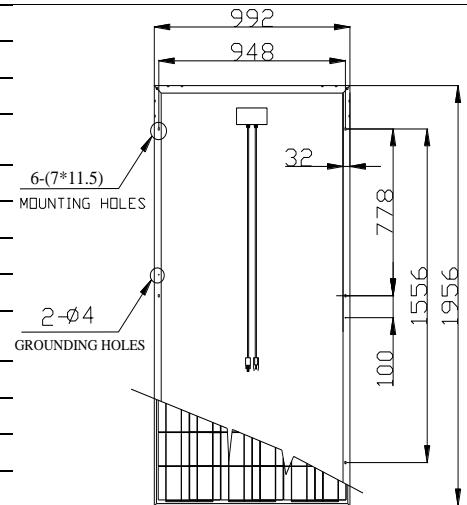
** (at low irradiance) irradiance level 200 W/m², Air-Mass (AM) 1.5; cell temperature 25°C

Temperature Coefficient (changes with temperature changes)

16	Temp coefficient of Voc	U _{OC}	-0.346%/°C
17	Temp coefficient of Isc	I _{SC}	0.036%/°C
18	Temp coefficient of power	P _{MPP}	-0.47%/°C

Mechanical data (dimensions and weight)

19	Length	1,956mm(77.01 in)
	Width	992mm(39.067 in)
	Height	40mm(1.57 in)
20	Weight	22.0kg(48.5LB)



Limits

21	Maximum voltage	1,000V
22	Fuse rating	15A
23	Operating temperature	-40~+85°C
24	Maximum pressure(according to IEC 61215 ed.2)	5,400 N/m ²
25	Application class (according to IEC 61730)	A
26	Fire class (according to IEC 61730)	B
27	Class	II

Approvals and Certificates

28	IEC 61215 ed.2	
	IEC 61730	
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