

CareyGlass Solar 72 cell 190w to 205w panel Specifications

Electrical Characteristics at STC

Value tested at Standard Testing Conditions (STC) defined as irradiance of 1000 W/m², AM 1.5, cell temperature 25 °C.

P_m (W)	190	195	200	205
P_m Tol.(W)	0~+5	0~+5	0~+5	0~+5
η (%)	14.9	15.3	15.7	16.1
I_m (A)	5.19	5.32	5.41	5.51
V_m (V)	36.6	36.7	37.1	37.2
I_{sc} (A)	5.49	5.61	5.7	5.79
V_{oc} (V)	44.9	45.0	45.3	45.4
FF	0.771	0.773	0.776	0.780

Electrical characteristics at NOCT

Value tested at Normal Operating Cell Temperature (NOCT) defined as irradiance of 800 W/m², AM 1.5, ambient temperature 20 °C, wind speed 1 m/s.

P_m (W)	140	144	147	151
η (%)	13.7	14.1	14.4	14.8
I_m (A)	4.13	4.22	4.27	4.36
V_m (V)	34	34.2	34.5	34.6
I_{sc} (A)	4.42	4.52	4.6	4.66
V_{oc} (V)	42.1	42.3	42.4	42.6
FF	0.755	0.755	0.755	0.760

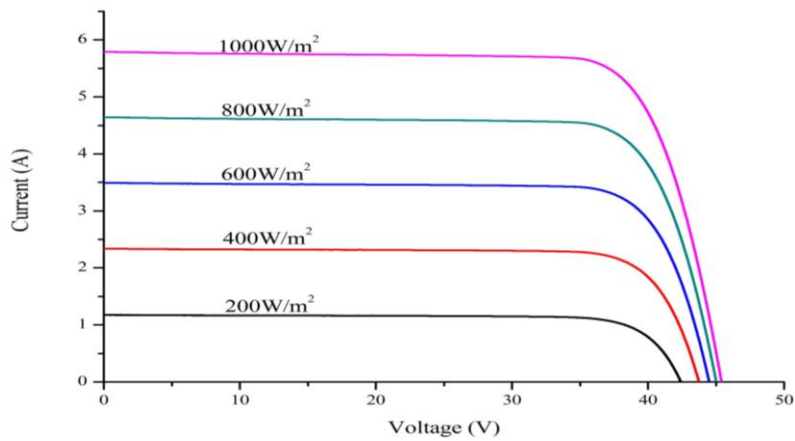
Mechanical Characteristics

Cell Technology	125×125 mm Mono-crystalline
Number of Cells	72 (6×12) PCS
Dimension	1580×808×35 mm
Weight	16 kg
Glass	High Transmission, Low Iron, Tempered Glass
Junction Box	IP65/IP67 rated, with bypass diodes
Cable Length	4 mm ² (EU)/12 AWG (US), 1000 mm
Frame	Anodized Aluminum Alloy

Packing Information

Container	20' GP	40' GP	40' HQ
Pallets Per Container	12	28	28
Pieces per Container	372	868	952

I-V Characteristic Curve at Various Irradiance (AM1.5, 25°C)



Performance at Low Irradiance (η /%)

Irridance (W/m²)	190	195	200	205
1000	14.9	15.3	15.7	16.1
800	15.0	15.3	15.8	16.2
600	15.0	15.4	15.8	16.2
400	14.9	15.3	15.8	16.1
200	14.6	14.9	15.4	15.7

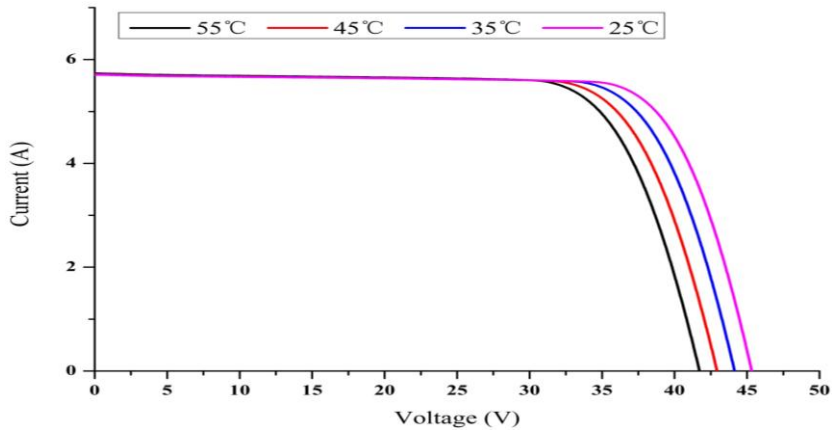
Temperature Coefficients

Temperature coefficients of P_m	-0.43%/°C
Temperature coefficients of V_{oc}	-0.31%/°C
Temperature coefficients of I_{sc}	0.03%/°C

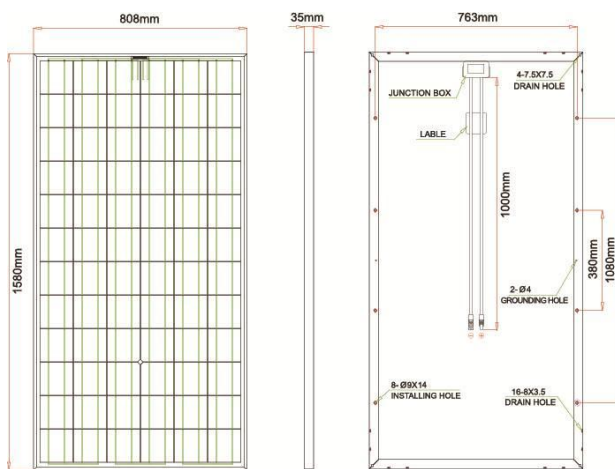
Maximum Ratings

Operating Temperature	-40°C~85°C
Hail Safety Impact Velocity	23 m/s (25 mm, 7.5 g)
Fire Safety Classification	Class II
Static Load Wind/Snow	2400 Pa/5400 Pa
Series Fuse Rating	15A(EU)/10A(US)
Series System Voltage	1000 V(EU)/600 V(US)

I-V Characteristic Curve at Various Cell Temperature



Basic Dimensions



Drawing Only for Reference