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Solar Panel Guide Specification Data Sheet

Yuhuan Sinosola Science & Technology Co., Ltd.

SA270-290W-60P

SA275-60P

Also available on the web at

EnergyPal.com/yuhuan-sinosola-science-technology-co-ltd-solar-panels/sa275-60p

Poly Crystalline Solar Module -6 inch*60



Electrical characteristics at Standard Test Conditions (STC)					
Model	SA270-60P	SA275-60P	SA280-60P	SA285-60P	SA290-60P
Max Power - Pmpp (W)	270	275	280	285	290
Positive power tolerance (%)	0-5W	0-5W	0-5W	0-5W	0-5W
Open Circuit Voltage - Voc (V)	38.72	38.91	39.15	39.34	39.52
Short Circuit Current - Isc (A)	9.41	9.53	9.55	9.60	9.72
Max Power Voltage-Vmpp (V)	31.43	31.76	32.23	32.69	33.08
Max Power Current - Imp (A)	8.59	8.66	8.69	8.72	8.77
Module Efficiency(%)	16.60	16.90	17.21	17.52	17.83

Electrical data relates to standard test conditions (STC): irradiance 1000 W/m²; AM 1.5 ; cell temperature 25°C measuring uncertainty of power is within 0-5W. Certified in accordance with IEC61215:2016, IEC61730-1/2:2016

Electrical characteristics at Nominal Operating Cell Temperature (NOCT)					
Model	SA270-60P	SA275-60P	SA280-60P	SA285-60P	SA290-60P
Max Power - Pmpp (W)	198	202	205	209	213
Open Circuit Voltage - Voc (V)	35.32	35.49	35.71	35.89	36.05
Short Circuit Current - Isc (A)	7.65	7.75	7.76	7.80	7.90
Max Power Voltage-Vmpp (V)	28.49	28.79	29.22	29.64	30.00
Max Power Current - Imp (A)	6.95	7.01	7.03	7.06	7.10

Nominal Operating Cell Temperature (NOCT): Irradiance 800W/m² ,environment temperature 20 ,wind speed 1m/s







Temperature Characteristics		Maximum Ratings	
Voltage Temperature Coefficient	-0.36%/K	Maximum system voltage (V)	1500 V DC
Current Temperature Coefficient	+0.06%/K	Series fuse rating (A)	13A/15A
Power Temperature Coefficient	-0.36%/K	Reverse current overload (A)	25A

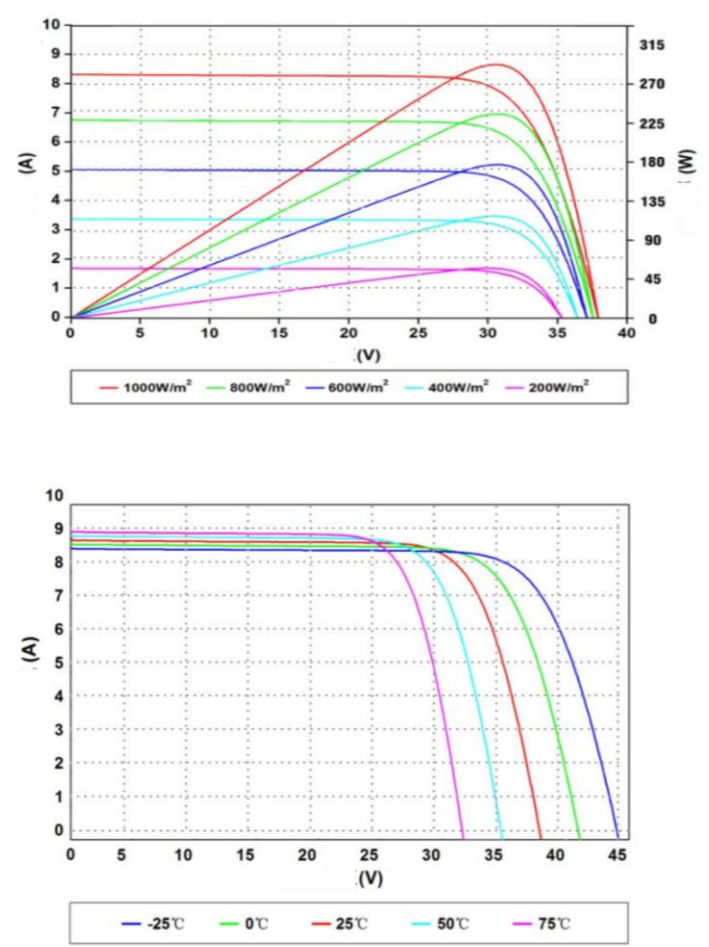
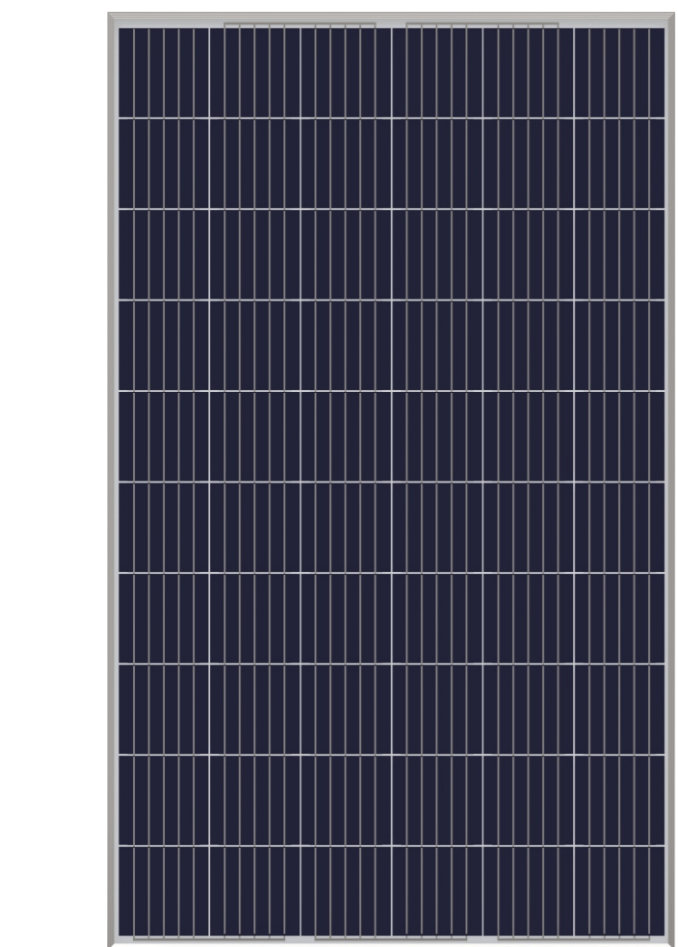
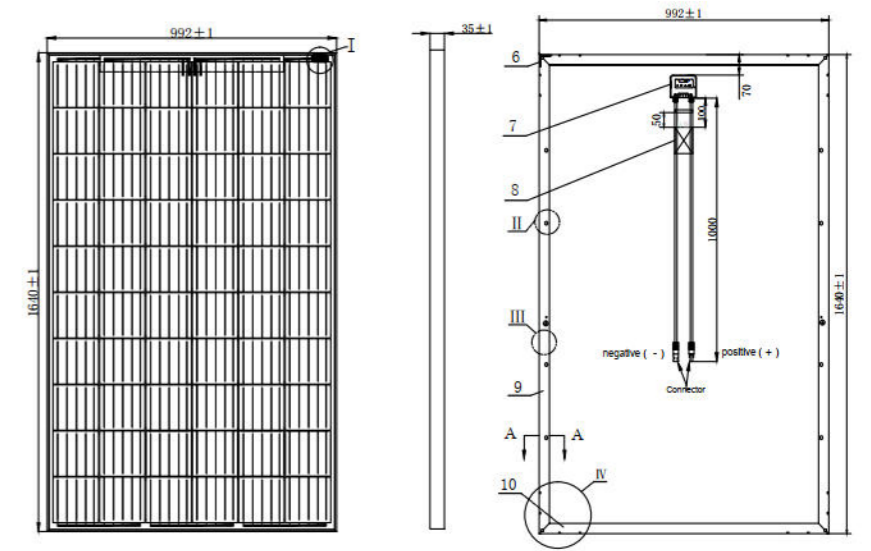
Mechanical Characteristics	
Dimensions	1640*992*35mm (Length*Width*Depth)
Weight	18.0kg
Frame	Anodized aluminum profile (Silvery/Black)
Front glass	White toughened safety glass,anti-reflective coating 3.2mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back sheet (Black / White)	Fluorine containing composite film
Cells	6*10pieces Poly solarcells seriesstrings(6INCH/5BB)
Junction Box	Rated current ≥13A/15A,IP≥67/68
Cable	Length 900mm,1×4mm ²
Connector	MC 4/ compatible

Note : We accept customized solar modules , such as frame , backsheet colors , length of cables

Packaging		Parameters	
Container 20	360PCS	temp. Range	-40°C to 85°C
Container 40	840PCS	Application Class	Class A
Container 40HQ	952PCS	Pollution Degree	1
		Protection Class	Class II
		Fire Rating	Class C

Dimensions
Note: Module layout below only valid for modules with 35mm thickness. All dimensions in mm

-  Cell efficiency > 20.2%
-  EL Double Inspection
-  12 years Material&workmanship warranty
-  25 years Linear power output warranty
-  diameter 25mm with 23m/s (standard)
diameter 55mm with 33.9m/s (optional)
-  front side 5400Pa (standard)
front side 8000Pa & 12000Pa (optional)



IEC61215-1:2016 IEC61215-1-1:2016 IEC61215-2:2016 IEC61730-1:2016 IEC61730-2:2016 EN61215-1:2016
EN61215-2:2017 EN61215-1-1:2016 EN IEC61730-1:2018 EN IEC61730-2:2018 IEC61853-1:2011 IEC61701:2011
IEC TS62804-1:2015 IEC62716:2013 EN50380:2003 KS C 8561:2016 IEC60068-2-68 LCS ISO9001:2015 ISO14001:2015

