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Solar Panel Guide Specification Data Sheet

Yuhuan Sinosola Science & Technology Co., Ltd.

SAB 380-400W-72M

SAB400-72M

Also available on the web at

EnergyPal.com/yuhuan-sinosola-science-technology-co-ltd-solar-panels/sab400-72m

Bifacial module- double glass -6 inch*72

Electrical characteristics at Standard Test Conditions (STC)

Model	SAB375-72M	SAB380-72M	SAB385-72M	SAB390-72M	SAB395-72M	SAB400-72M
Positive power tolerance	0-5W	0-5W	0-5W	0-5W	0-5W	0-5W
Max Power - Pmpp (W)	375	380	385	390	395	400
Open Circuit Voltage - Voc (V)	48.68	49.20	49.53	49.82	50.06	50.32
Short Circuit Current - Isc (A)	9.91	10.02	10.09	10.16	10.23	10.30
Max Power Voltage-Vmpp (V)	39.65	40.11	40.33	40.56	41.78	42.02
Max Power Current - Imp (A)	9.46	9.48	9.55	9.54	9.62	9.69
Module Efficiency(%)	18.94	19.19	19.44	19.70	19.95	20.20

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 with different rear side power gain

Model	SAB400-72M					
Power gain	5%	10%	15%	20%	25%	30%
Max Power - Pmpp (W)	420	440	460	480	500	520
Open Circuit Voltage - Voc (V)	50.32	50.42	50.52	50.62	50.72	50.82
Short Circuit Current - Isc (A)	10.45	10.82	11.23	11.65	12.07	12.49
Max Power Voltage-Vmpp (V)	41.72	41.82	41.92	42.02	42.12	42.22
Max Power Current - Imp (A)	9.99	10.38	10.77	11.15	11.53	11.91

Temperature Characteristics

Voltage Temperature Coefficient	-0.36%/K
Current Temperature Coefficient	+0.04%/K
Power Temperature Coefficient	-0.36%/K

Maximum Ratings

Maximum system voltage (V)	1500 V DC
Series fuse rating (A)	20A

Mechanical Characteristics

Dimensions	1984*998*30mm (Length*Width*Depth)
Weight	29.5kg
Frame	Anodized aluminum profile (Silvery/Black)
Front and Rear glass	2.5mm*2PCS , Front : tempered glass with AR coating
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back sheet (Black / White)	composite film
Cells	6*12 pieces Mono solar cells series strings(6INCH/5BB)
Junction Box	IP ≥68,3 diodes
Cable	4mm ²
Connector	MC 4

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

Packaging

Container 20	350PCS
Container 40	770PCS
Container 40HQ	880PCS

Parameters







temp. Range	-40°C to 85°C
Application Class	Class A
Pollution Degree	1
Protection Class	Class II
Fire Rating	Class C
Backside rate	70% ±5%

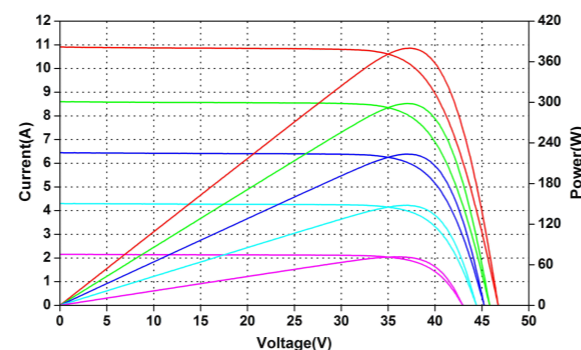
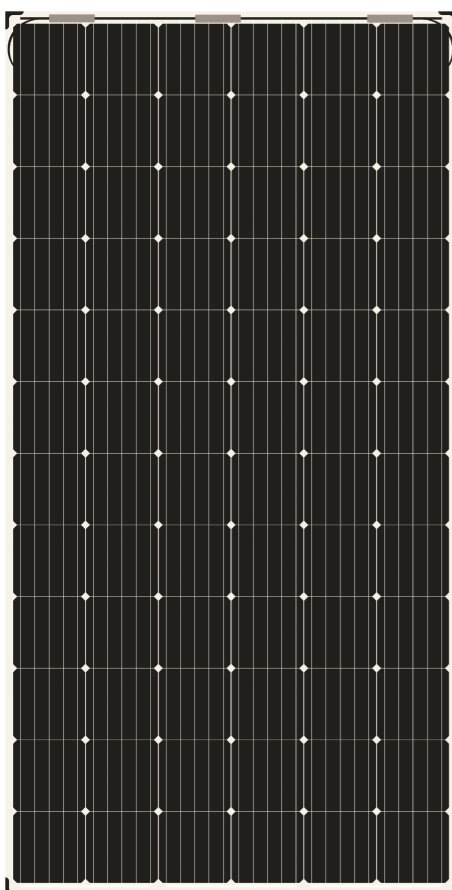
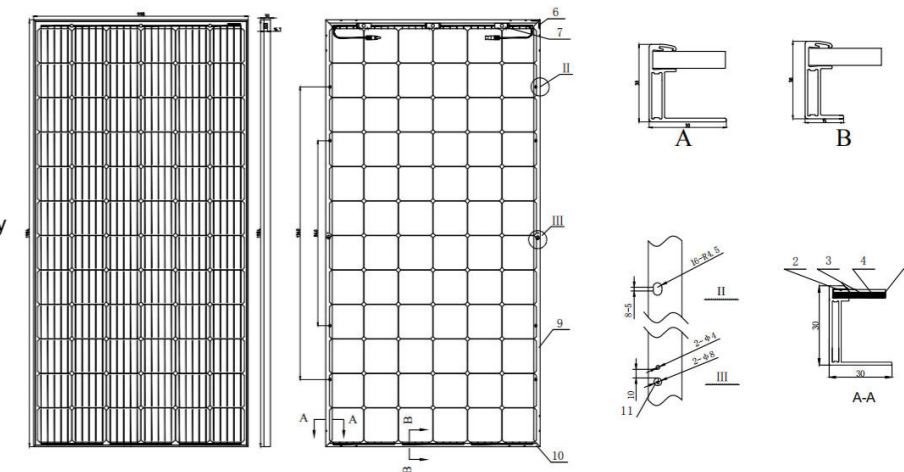
Rated cell operating temperature

Rated cell operating temperature	45±2
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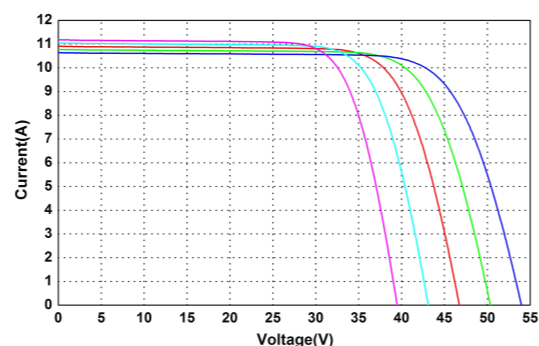
Dimensions

Note: Module layout below only valid for modules with 30mm thickness. All dimensions in mm

-  Cell efficiency > 22.5%
-  EL Double Inspection
-  12 years Material&workmanship warranty
-  30 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)



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures

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

