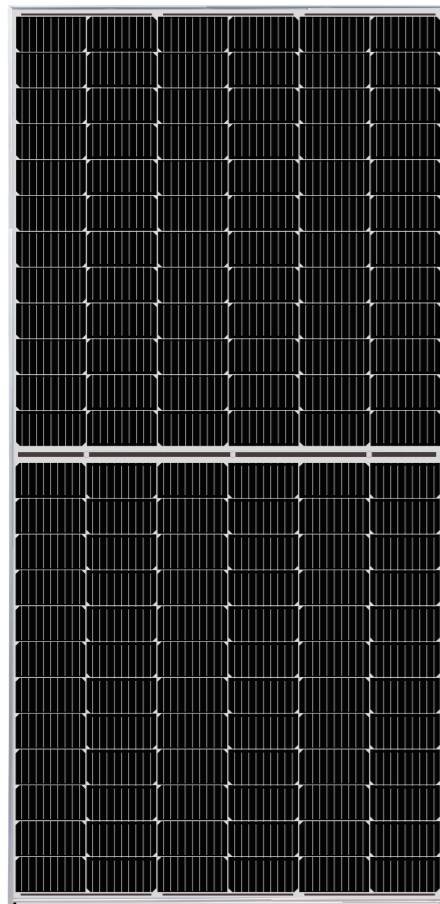
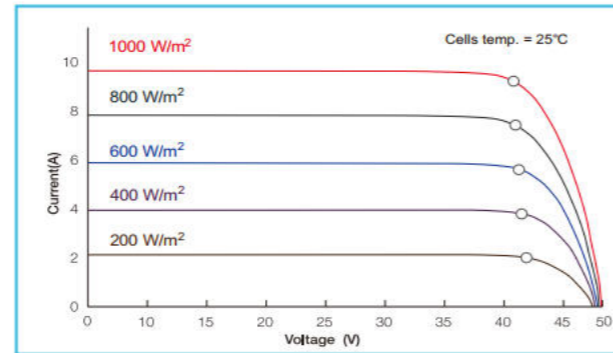


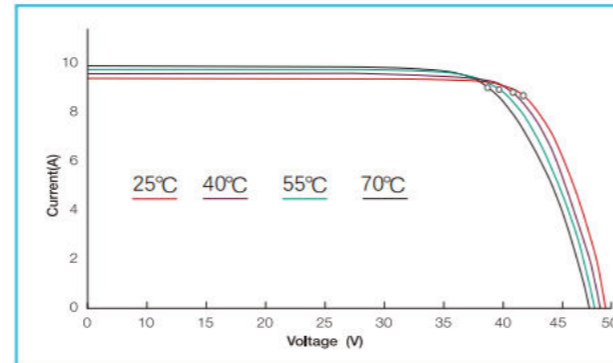
PERC Half-Cell Module-M6-144



I-V curve



I-V curve



Electrical characteristics at Standard Test Conditions (STC)

Model	SA430-144M	SA435-144M	SA440-144M	SA445-144M	SA450-144M
Max Power - Pmpp (W)	430	435	440	445	450
Positive power tolerance (W)	0-5	0-5	0-5	0-5	0-5
Open Circuit Voltage - Voc (V)	49.12	49.43	49.60	50.03	50.27
Short Circuit Current - Isc (A)	11.21	11.27	11.33	11.39	11.46
Max Power Voltage-Vmpp (V)	41.04	41.24	41.44	41.63	41.83
Max Power Current - Imp (A)	10.48	10.55	10.62	10.69	10.76
Module Efficiency(%)	19.78	20.01	20.24	20.47	20.70

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	SA430-144M	SA435-144M	SA440-144M	SA445-144M	SA450-144M
Max Power - Pmpp (W)	317	320	323	327	330
Open Circuit Voltage - Voc (V)	45.68	45.87	46.06	46.24	46.45
Short Circuit Current - Isc (A)	8.83	8.88	8.93	8.98	9.02
Max Power Voltage-Vmpp (V)	37.79	37.91	38.00	38.25	38.43
Max Power Current - Imp (A)	8.39	8.44	8.50	8.55	8.59

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

Temperature Characteristics

Voltage Temperature Coefficient	-0.26%/K
Current Temperature Coefficient	+0.044%/K
Power Temperature Coefficient	-0.34%/K

Maximum Ratings

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

Mechanical Characteristics

Dimensions	2094*1038*35mm(Length*Width*Depth)
Weight	23kg ±3%
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*24 pieces Mono solar cells series strings(M6)
Junction Box	IP ≥ 68,3diodes
Cable	Length 300mm, Diameter 4mm ²
Connector	MC4

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

Packaging

Container 40HQ	748PCS
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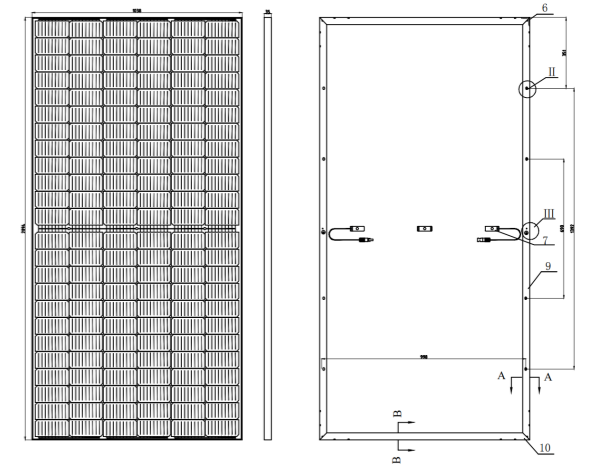
Parameters

temp. Range	-40°C to 85°C
Application Class	Class A
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 and tolerance ±2mm

- Cell efficiency > 23.0%
- 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
EN61000-6-1:2007 EN61000-6-3:2007+A1:2011+AC:2012 IEC61000-6-1:2016 IEC61000-6-3:2011 EN50380:2003
IEC TS62804-1:2015 IEC62716:2013 KS C 8561:2016 IEC60068-2-68 LCS ISO9001:2015 ISO14001:2015 ISO45001:2018

