



IECS-6M6A-300

Mono-Crystalline Module

100% Made in Taiwan



High Stability

Positive Tolerance Up To +5W



25 Years True Linear Warranty

25-year: minimum 80% power output
10-year: minimum 90% power output



High Snow and Wind Load

Higher Strength with Wind and Snow Loads Up To 5400pa



PID Free

85% Relative Humidity / 60 C Temperature / 96Hrs



Environment & Reliability Test

Salt Mist Corrosion Test IEC61701
Ammonia Corrosion Test IEC62716



IECS-6M6A-300 Mono-Crystalline Module

Electrical Characteristics (STC)

STC (Standard Test Conditions): 1,000 W/m², (25 ± 2)°C, AM 1.5 in accordance with EN 60904-3

Capacity Rating	P _{max}	300W	295W	290W	285W	280W
Module Efficiency	%	18.4%	18.1%	17.8%	17.5%	17.2%
Maximum Power Voltage	V _{mpp}	33.96	33.53	33.10	32.67	32.24
Maximum Power Current	I _{mpp}	8.85	8.81	8.77	8.73	8.69
Open Circuit Voltage	V _{oc}	40.29	40.04	39.79	39.54	39.29
Short Circuit Current	I _{sc}	9.70	9.63	9.56	9.49	9.43
Maximum Reverse Current	I _R /A	15 A	15 A	15 A	15 A	15 A
Maximum System Voltage	V			1000 V		

Electrical Characteristics (NOCT)

NOCT (Normal Operating Cell Temperature): 800 W/m², NOCT, AM 1.5

Capacity Rating	P _{max}	218.27W	214.53W	210.82W	207.13W	203.47W
Maximum Power Voltage	V _{mpp}	30.93	30.54	30.14	29.75	29.36
Maximum Power Current	I _{mpp}	7.06	7.03	7.00	6.96	6.93
Open Circuit Voltage	V _{oc}	37.26	37.03	36.79	36.56	36.33
Short Circuit Current	I _{sc}	7.81	7.75	7.70	7.64	7.59

Temperature coefficients

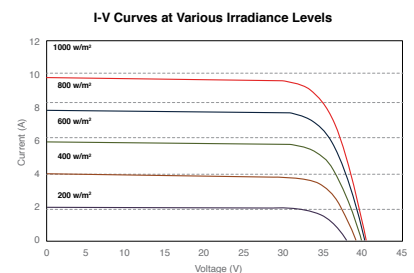
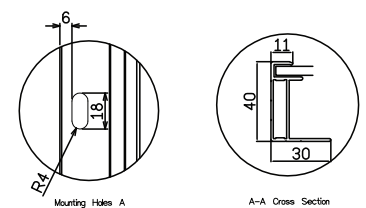
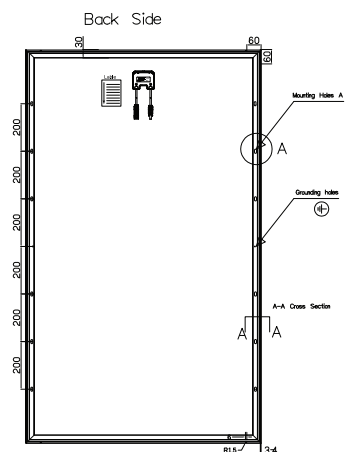
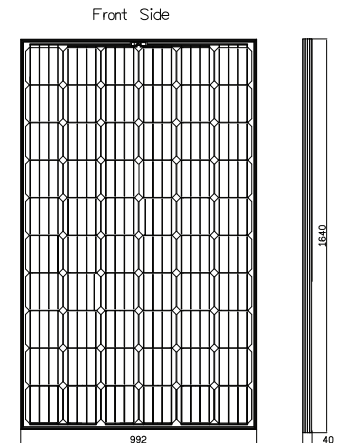
Temperature of Coeff. Of Voc	-0.31%/°C
Temperature of Coeff. Of I _{sc}	+0.03%/°C
Temperature of Coeff. Of P _{max}	-0.45%/°C

Working Conditions

Temperature range	-40°C to + 85°C
NOCT	47°C±2°C
Maximum Series Fuse	15A
Maximum surface load capacity	Tested up to 5,400 Pa according to IEC 61215
Resistance against hail	Maximum diameter of 25mm with impact speed of 83km/hr
Wind Resistance	Positive & Negative Wind Pressure of 5400Pa
Grounding conductivity	<0.01Ω
Application class	Class A according to IEC 61730
Insulation Resistance	>100MΩ

Mechanical Characteristics

Dimensions (L x W x D)	1640x992x40 mm
Weight	18.9 Kg
Junction box	1 junction box with 3 bypass diodes
Cable	Solar cable, length 1,000 mm, 4 mm ² , prefabricated with MC4-combinable plug
Application class	A (according to IEC 61730)
Front glass	Low-Fe High Transparent toughened safety glass, 3.2 mm
Solar cells	6x10 cells, mono-crystalline Si (156 x156 mm)
Cell encapsulation	EVA (Ethylene Vinyl Acetate)
Back side	Composite film
Frame	Anodized Aluminum Frame with double-wall profile and drainage holes
Connect Type	MC4 Compatible



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