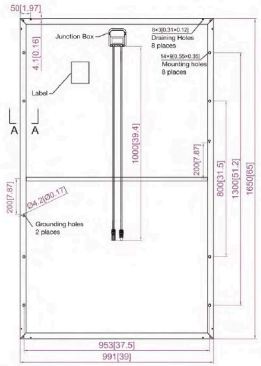
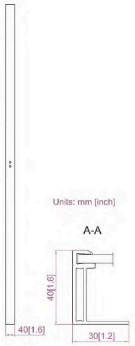
JST280-300M(60) FULL BLACK

Engineering Drawings





MECHANICAL PARAMETERS

Cell (mm)	Almost Full Square Mono 156.75x156.75
Weight (kg)	19.0 (approx)
Dimensions (L×W×H) (mm)	1650×991×40
Cable Cross Section Size (mm^2)	4
No. of Cells and Connections	60 (6×10)
Junction Box	IP67, 3 diodes
Connector	MC4 Compatible
Packaging Configuration	27 Per Pallet

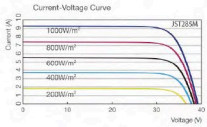
WORKING CONDITIONS

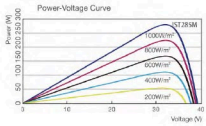
Maximum System Voltage	DC 1000V (IEC)
Operating Temperature	-40℃~+85℃
Maximum Series Fuse	15A
Maximum Static Load, Front Maximum Static Load, Back	5400Pa (112 lb/ft^2) 2400Pa (50 lb/ft^2)
NOCT	45±2℃
Application Class	Class A

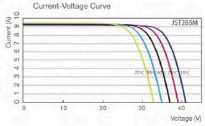
ELECTRICAL PARAMETERS

TYPE	JST280M	JST285M	JST290M	JST295M	JST300M
Rated Maximum Power at STC (W)	280	285	290	295	300
Open Circuit Voltage (Voc/V)	39.05	39.25	39.46	39.64	39.85
Maximum Power Voltage (Vmp/V)	31.60	31.70	31.80	32.03	32.26
Short Circuit Current (Isc/A)	9.38	9.46	9.57	9.66	9.75
Maximum Power Current (Imp/A)	8.86	8.99	9.12	9.21	9.30
Module Efficiency [%]	17.12	17.43	17.74	18.04	18.35
Power Tolerance (W)	-0~+5W				
Temperature Coefficient of Isc (αIsc)	+0.060%/℃				
Temperature Coefficient of Voc (βVoc)	-0.300%/℃				
Temperature Coefficient of Pmax (γPmp)	-0.390%/℃				
STC	Irradiance 1000W/m^2, Cell Temperature 25℃, Air Mass 1.5				

I-V CURVE







NOCT

TYPE	JST280M	JST285M	JST290M	JST295M	JST300M
Max Power (Pmax) [W]	204.71	208.36	212.02	215.67	219.33
Open Circuit Voltage (Voc) [V]	35.81	36.01	36.24	36.46	36.65
Max Power Voltage (Vmp) [V]	28.55	28.62	28.81	28.87	28.94
Short Circuit Current (Isc) [A]	7.64	7.73	7.81	7.89	7.98
Max Power Current (Imp) [A]	7.17	7.28	7.36	7.47	7.58
Condition	Under Normal Operating Cell Temperature, Irradiance of 800 W/m^2, spectrum AM 1.5, ambient temperature 20℃, wind speed 1 m/s				

Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

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