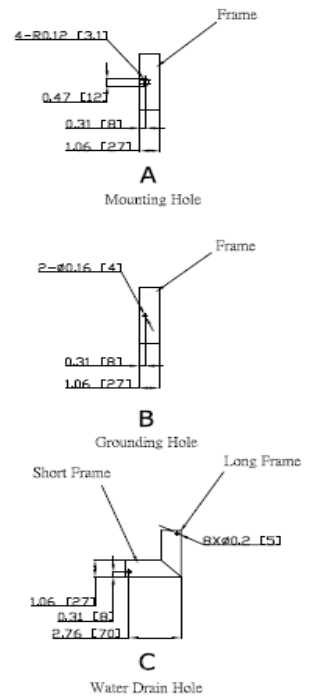
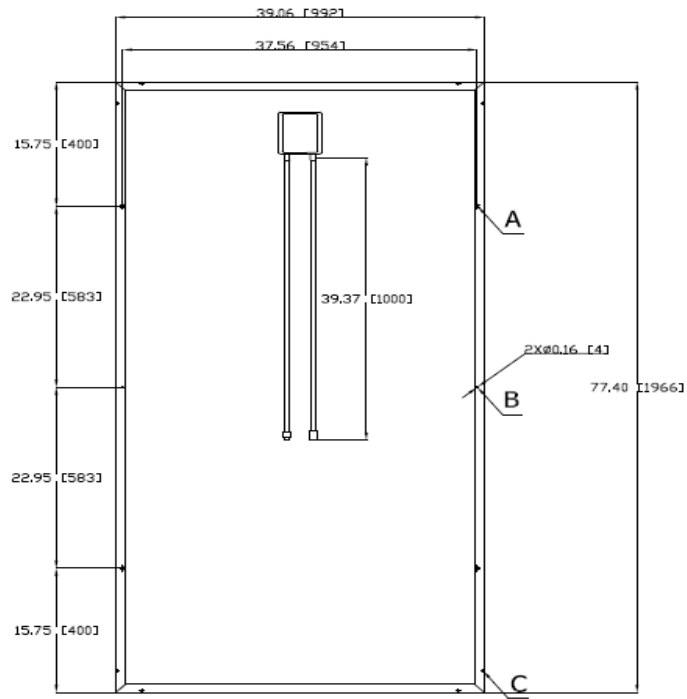




MM300T Series

6" Mono-crystalline Solar Cell, 3bus-bar , 6x12pcs



Unit: in [mm]



Product Characteristics

Physical Specifications

Dimension [L x W x H]	77.40 x 39.06 x 1.65in (1966 x 992 x 42mm)
Module Area	20.99 sq. ft (1.95 m ²)
Weight	57 Lbs (25Kg)

Electrical Characteristics: Performance at STC*1

Model Type	MM280T	MM285T	MM290T	MM295T
Peak Power Rating, Pmax	280W	285W	290W	295W
Power Tolerance	± 3%	± 3%	± 3%	± 3%
Peak Power Voltage, Vpm	34.66 V	34.73 V	35.20 V	35.34 V
Peak Power Current, Ipm	8.01	8.14 A	8.19 A	8.30A
Open Circuit Voltage, Voc	43.46 V	43.66 V	44.27 V	44.48V
Short Circuit Current, Isc	8.53 A	8.59 A	8.74 A	8.81A
Power Density [W / ft ²]	13.34	13.58	13.82	14.05
Power Density [W / m ²]	143.59	146.15	148.72	151.28
Module Efficiency	14.36%	14.62%	14.87%	15.13%

Model Type	MM300T	MM305T	MM310T	MM315T
Peak Power Rating, Pmax	300W	305W	310W	315W
Power Tolerance	± 3%	± 3%	± 3%	± 3%
Peak Power Voltage, Vpm	35.40 V	35.54 V	35.70 V	36.15 V
Peak Power Current, Ipm	8.42 A	8.53 A	8.63 A	8.74 A
Open Circuit Voltage, Voc	44.55 V	44.69 V	44.88 V	45.45V
Short Circuit Current, Isc	8.87 A	8.93 A	8.99 A	9.11 A
Power Density [W / ft ²]	14.29	14.53	14.77	15.01
Power Density [W / m ²]	153.85	156.41	158.97	161.54
Module Efficiency	15.39%	15.64%	15.90%	16.15%

*STC: Standard Test Condition, 1000W/m², AM 1.5, 25°C

Packing Specifications

Modules Per Carton	12pcs/Carton
Modules Per Pallet	24pcs/Pallet (=2 Cartons/Pallet)
Pallet Dimension [L x W x H]	79.6 x 44.6 x 44.2 in (2022 x 1132 x 1122 mm)
Pallet Weight	1468 Lbs (642Kg)
20ft Container Capacity (pcs)	240
40ft Container Capacity (pcs)	528

System Integration Parameter & Safety Rating

Maximum System Voltage (U.S. & Canada)	600VDC
Maximum System Voltage (Area Not in the U.S. & Canada)	1000VDC (According to Norms in Each Area)
Series Fuse Rating	15A
Fire Safety Class	Class C
Application Class	Class A (Safety Class II)
Environmental Operating Temperature (°F, °C)	-40 to 185°F, -40 to 85°C

Limited Warranty***

Product	10Years
90% Output Power	10Years
80% Output Power	25Years

***For details, please read our warranty letter.

Component materials

Cell Qty per Module	72pcs
Cell Type	Mono-crystalline Silicon , 3 Bus-Bar
Cell Dimensions	6 x 6 in (156 x 156 mm)
Laminate Construction	Front: Tempered Glass Encapsulation: Solar Cells Embedded in EVA (Ethylene-Vinyl-Acetate) Rear: Tedlar Color of back sheet: White
Glass	Low-Iron Tempered Glass Standard thickness: 0.157in (=4mm) (>0.126in (=3.2mm), ex. 0.157in (=4mm) or above, custom-made possible.)
Junction Box	IP65, Kit with Solar Cables & Connectors, TÜV Certified & UL Listed
Bypass Diodes	3pcs, TÜV Certified & UL Listed
Cable	Solar Cable x2 (Kit with Junction Box & Connector) Cable Length: 39.37/39.37in. (1000/1000mm) Wire Size: AWG #12, 4.0mm ² , TÜV Certified & UL Listed
Connector	Tyco Connectors, x2 (Male Coupler x1 + Female Coupler x1) MC4 Connectors (Optional), x2 (Male Coupler x1 + Female Coupler x1) TÜV Certified & UL Listed
Frame	Anodized Aluminum Frame. Color : Silver / Black options

Thermal Characteristics

NOCT (Nominal Operating Cell Temperature) °F, °C	115.70°F, 46.5°C
Temperature Coefficient TK I_{sc} (Short Circuit Current) α	+0.0545%/°C
Temperature Coefficient TK V_{oc} (Open Circuit Voltage) β	-0.3441%/°C
Temperature Coefficient TK P_{max} (Peak Power) γ	-0.4566%/°C