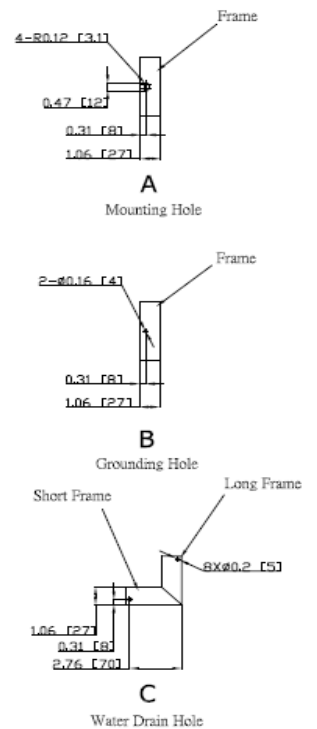
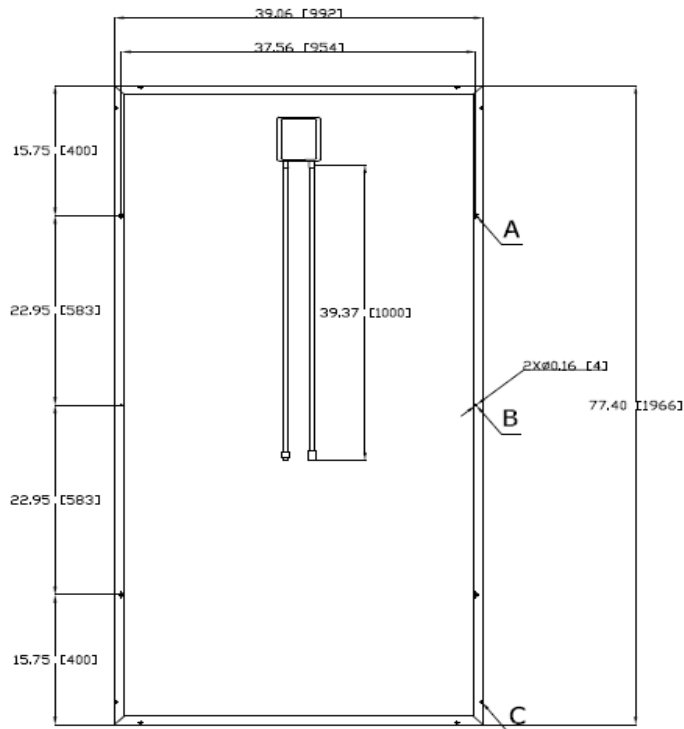
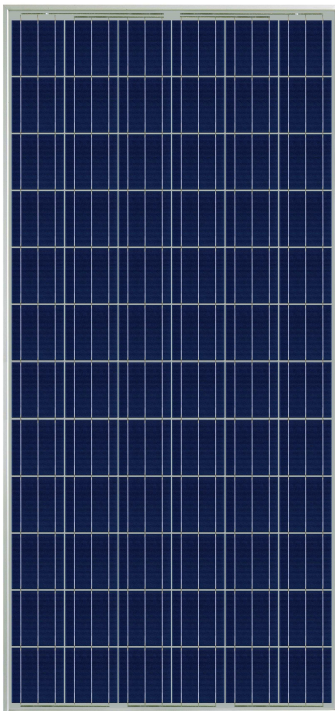




Join the RITEK Solar Revolution

## PM290T Series

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



Unit: in [mm]



## Product Characteristics

### Physical Specifications

<b>Dimension [L x W x H]</b>	77.40 x 39.06 x 1.65in (1966 x 992 x 42mm)
<b>Module Area</b>	20.99 sq. ft (1.95 m <sup>2</sup> )
<b>Weight</b>	56 Lbs (25Kg)

### Electrical Characteristics: Performance at STC\*1

Model Type	PM265T	PM270T	PM275T	PM280T
Peak Power Rating, Pmax	265W	270W	275W	280W
Power Tolerance	± 3%	± 3%	± 3%	± 3%
Peak Power Voltage, Vpm	34.84 V	34.98 V	35.32 V	35.53 V
Peak Power Current, Ipm	7.60 A	7.68 A	7.80 A	7.83 A
Open Circuit Voltage, Voc	43.94 V	44.08 V	44.44 V	44.66 V
Short Circuit Current, Isc	8.21 A	8.25 A	8.37 A	8.43 A
Power Density [ W / ft <sup>2</sup> ]	12.62	12.86	13.10	13.34
Power Density [ W / m <sup>2</sup> ]	135.88	138.44	141.01	143.57
Module Efficiency	13.59%	13.84%	14.10%	14.36%

Model Type	PM285T	PM290T	PM295T
Peak Power Rating, Pmax	285W	290W	295W
Power Tolerance	± 3%	± 3%	± 3%
Peak Power Voltage, Vpm	35.94 V	36.22 V	36.35 V
Peak Power Current, Ipm	7.95 A	7.99 A	8.05 A
Open Circuit Voltage, Voc	45.09 V	45.30 V	45.45 V
Short Circuit Current, Isc	8.52 A	8.56 A	8.61 A
Power Density [ W / ft <sup>2</sup> ]	13.58	13.81	14.05
Power Density [ W / m <sup>2</sup> ]	146.13	148.70	151.26
Module Efficiency	14.61%	14.87%	15.13%

\*STC: Standard Test Condition, 1000W/m<sup>2</sup>, AM 1.5, 25°C

### Packing Specifications

<b>Modules Per Carton</b>	12pcs/Carton
<b>Modules Per Pallet</b>	24pcs/Pallet (=2 Cartons/Pallet)
<b>Pallet Dimension [L x W x H]</b>	78.78 x 44.7 x 43.9 in (2001 x 1134 x 1114 mm)
<b>Pallet Weight</b>	1415 Lbs (642Kg)
<b>20ft Container Capacity (pcs)</b>	240
<b>40ft Container Capacity (pcs)</b>	528

### System Integration Parameter & Safety Rating

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

### Limited Warranty\*\*\*

<b>Product</b>	10Years
<b>90% Output Power</b>	10Years
<b>80% Output Power</b>	25Years

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

## Component materials

Cell Qty per Module	72pcs
Cell Type	Polycrystalline 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) (>0.157in (=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 <sup>2</sup> , 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 & others, custom-made possible.)

## Thermal Characteristics

Temperature Coefficient TK I <sub>sc</sub> (Short Circuit Current) $\alpha$	+0.052%/°C
Temperature Coefficient TK V <sub>oc</sub> (Open Circuit Voltage) $\beta$	-0.328%/°C
Temperature Coefficient TK P <sub>max</sub> (Peak Power) $\gamma$	-0.440%/°C

### ■ About RITEK Solar

RITEK Solar is a global professional manufacturer to provide solar modules and solar system construction. Through best-quality, and high-performance solar modules and a variety of solar solutions, RITEK Solar can meet and satisfy your perfect standard and need.

### ■ High Performance

- ⊙ Own key technologies and capabilities to rapidly ramp up
- ⊙ Module maximum conversion efficiency > 14%
- ⊙ 3BB Full Square Mono and Multicrystalline high efficiency solar modules

### ■ Best Quality and Reliability

- ⊙ We guarantee that all the solar modules are made in Taiwan.
- ⊙ Modules independently tested to ensure conformance with certification and regulatory standards.
- ⊙ Manufacturing facility certified to ISO 9001 Quality Management System standards.

### ■ Warranties

- ⊙ 10-year limited product warranty
- ⊙ Warranty of minimal power output 90% at STC for 10 years
- ⊙ Warranty of minimal power output 80% at STC for 25 years