



PM220 Series

Physical Specifications

Dimension [L x W x H]	1659x1000x42 mm
Weight (Kg)	21 Kg

Performance Warranty

90% Output	10Years
80% Output	25Years

Packing Specifications

Modules Per Carton	12pcs/carton
Module Per Pallet	24pcs/pallet
20ft Container Capacity	312
40ft Container Capacity	672

Quality Assurance

ISO 9001:2000 Quality Management	Certified
IEC 61215:2005	TÜV certified
EN 61730-1 & EN 61730-2:2007	TÜV certified
UL1703	Certified
ULC/ORD-C1703 Second Edition	Certified
CEC	Listed
1. Electrical Insulation Test	2. Outdoor Exposure Test
3. Hot-Spot Endurance Test	4. UV-exposure
5. Thermal Cycling Test	6. Humidity Freeze Test
7. Damp Heat Test	8. Robustness of Terminations Test
9. Wet Leakage Current Test	10. Mechanical Load Test
11. Hail Impact Test	12. Bypass Diode Thermal Test

Though the technical information has been carefully verified and corrected, error data could still be misplaced within. Above data will be subject to change without prior notice due to actual manufacturing condition and design. Please surf for the latest updates on RITEK website (<http://www.ritek.com/>, <http://www.riteksolar.com/>) or contact us.

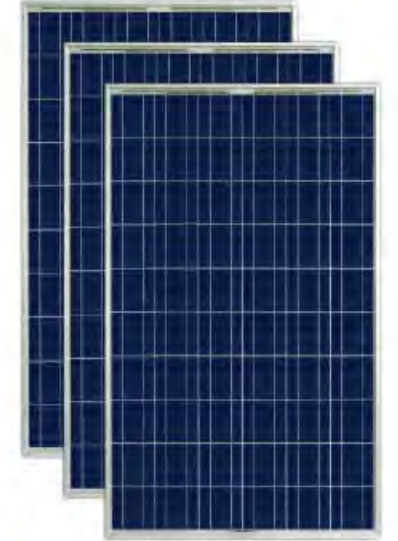
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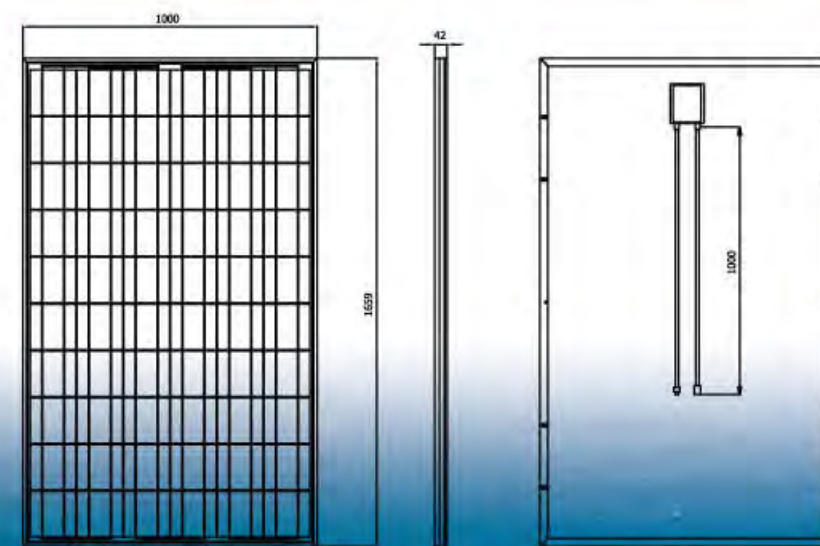
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Features

- The most reliable quality
- Good conversion efficiency of solar energy
- Effectively minimize the power drop by the shade
- High-level protection for severe environment
- High quality glass provides for less reflection of incoming sunrays
- Warranty of minimal power output 80% at STC for 20 years
- Color of the back sheet: White & Black (custom-made possible)
- Made in Taiwan



Technical Drawing



www.ritekusa.com/green

Product Characteristics

Electrical Characteristics: Performance at STC*1

Model Type	PM200	PM205	PM210	PM215	PM220	PM225	PM230	PM235
Nominal Peak Power, Pmax	200W ± 3%	205W ± 3%	210W ± 3%	215W ± 3%	220W ± 3%	225W ± 3%	230W ± 3%	235W ± 3%
Peak Power Voltage, Vpm	27.93 V	28.27 V	28.27 V	28.50 V	28.79 V	29.13 V	29.30 V	29.59 V
Peak Power Current, Ipm	7.11 A	7.31 A	7.40 A	7.55 A	7.67 A	7.77 A	7.82 A	7.92 A
Open Circuit Voltage, Voc	36.13 V	36.25 V	36.25 V	36.43 V	36.72 V	37.08 V	37.20 V	37.50 V
Short Circuit Current, Isc	7.64 A	7.74 A	7.83 A	7.98 A	8.10 A	8.20 A	8.25 A	8.33 A
Module Efficiency	12.06%	12.36%	12.66%	12.96 %	13.26%	13.56%	13.86%	14.17%

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



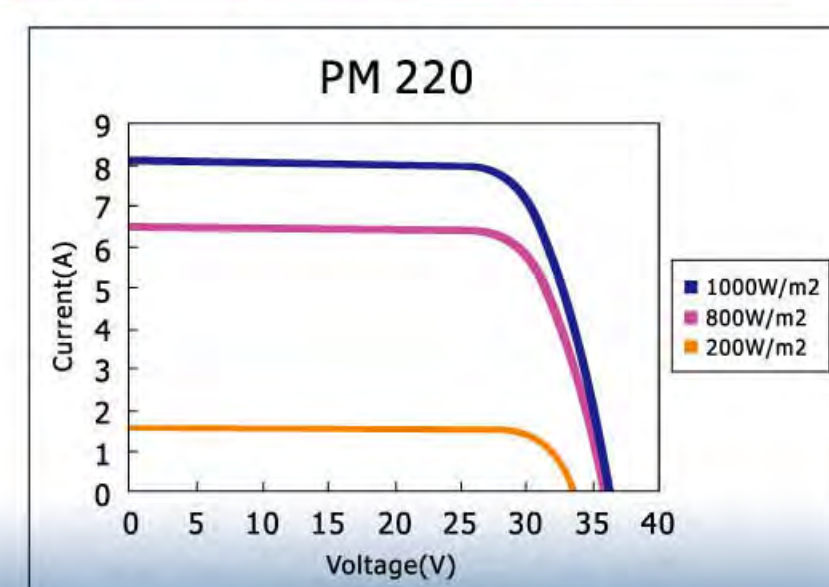
Component materials

Cell Qty per Module	60pcs
Cell Type	Polycrystalline Silicon
Cell Dimensions	156 x 156 mm
Laminate Construction	Front: Tempered Glass Encapsulation: Solar Cells Embedded in EVA (Ethylene-Vinyl-Acetate) Rear: Tedlar
Glass	Low-Iron Tempered Glass, 3.2mm
Junction Box	IP65 Junction Box (TÜV Certified)
Bypass Diodes	3pcs
Cable	2 Cables (TÜV Certified)
Connector	TÜV Certified
Frame	Anodized Aluminum Frame. Color: Silver

Thermal Characteristics

NOCT (Nominal Operating Cell Temperature)	44.2°C
Temperature Coefficient TK Pmax (Peak Power)	-0.52%/°C
Temperature Coefficient TK Voc (Open Circuit Voltage)	-0.37%/°C
Temperature Coefficient TK Isc (Short Circuit Current)	+5.556mA/°C

Current-Voltage Characteristics (I-V Curve) at various irradiance levels



System Integration Parameter

Maximum System Voltage	1000VDC (600VDC in US)
Series Fuse Rating	10A
Operating Temperature	-40 to 85°C

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