

Unit: mm [in]

Product Characteristics

Physical Specifications

Dimension [L x W x H]	1650 x 992 x 42 mm (64.96 x 39.06 x 1.65 in)
Module Area	1.64 m ² (17.62 sq. ft)
Weight	19.8 Kg (43.7 lb)

Packing Specifications

Modules Per Carton	12pcs/Carton
Modules Per Pallet	24pcs/Pallet (=2 Cartons/Pallet)
Pallet Dimension [L x W x H]	1685 x 1134 x 1114 mm (66.3 x 44.7 x 43.9 in)
Pallet Weight	517 Kg (1140 lb)
20ft Container Capacity (pcs)	288
40ft Container Capacity (pcs)	672

Electrical Characteristics: Performance at STC*1

Model Type	PM210	PM215	PM220	PM225
Peak Power Rating, Pmax	210W	215W	220W	225W
Power Tolerance	± 3%	± 3%	± 3%	± 3%
Peak Power Voltage, Vpm	27.98 V	28.21 V	28.38 V	28.66 V
Peak Power Current, Ipm	7.54 A	7.70 A	7.76 A	7.86 A
Open Circuit Voltage, Voc	36.03 V	36.21 V	36.33 V	36.69 V
Short Circuit Current, Isc	8.10 A	8.25 A	8.31 A	8.43 A
Power Density [W / ft ²]	11.92	12.20	12.49	12.77
Power Density [W / m ²]	128.30	131.35	134.41	137.46
Module Efficiency	12.83%	13.14%	13.44%	13.75%

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

Electrical Characteristics: Performance at STC*1

Model Type	PM230	PM235	PM240	PM245
Peak Power Rating, Pmax	230W	235W	240W	245W
Power Tolerance	± 3%	± 3%	± 3%	± 3%
Peak Power Voltage, Vpm	29.00 V	29.29 V	29.29 V	29.63 V
Peak Power Current, Ipm	7.98 A	8.07 A	8.23 A	8.31 A
Open Circuit Voltage, Voc	36.99 V	37.28 V	37.16 V	37.22 V
Short Circuit Current, Isc	8.53 A	8.61 A	8.79 A	8.85 A
Power Density [W / ft ²]	13.05	13.34	13.62	13.91
Power Density [W / m ²]	140.52	143.57	146.63	149.68
Module Efficiency	14.05%	14.36%	14.66%	14.97%

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

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 85°C, -40 to 185°F

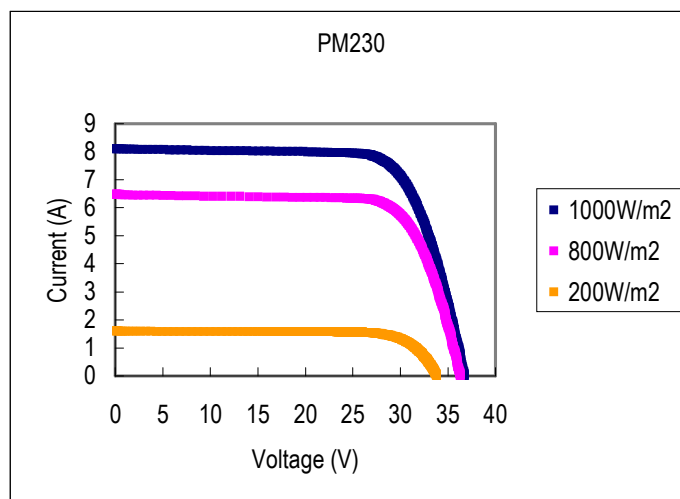
Thermal Characteristics

NOCT (Nominal Operating Cell Temperature) °F, °C	49.1°C, 120.38°F
Temperature Coefficient TK Isc (Short Circuit Current) α	+0.123%/°C
Temperature Coefficient TK Voc (Open Circuit Voltage) β	-0.296%/°C
Temperature Coefficient TK Pmax (Peak Power) γ	-0.376%/°C

Component materials

Cell Qty per Module	60pcs
Cell Type	Polycrystalline Silicon
Cell Dimensions	156 x 156 mm (6 x 6 in)
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: 3.2 mm (=0.126 in) (>3.2 mm (=0.126 in), ex. 4 mm (=0.157 in) 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: 1000/1000mm (39.37/39.37in) Wire Size: AWG #12, 4.0 mm ² , TÜV Certified & UL Listed
Connector	Tyco Connectors; MC4 Compatible Connectors; or MC4 Connectors (Optional) Qty: x2 (Male Coupler x1 + Female Coupler x1) TÜV Certified & UL Listed
Frame	Anodized Aluminum Frame. Color: Silver or Black

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



Certification, Norm Passed, & Incentive

ISO 9001:2000 Quality Management	SGS Certified
IEC 61215:2005	TÜV Certified
IEC 61215:2005 10.16	Passed & Complied with Mechanical Load Test for Heavy Snow Load at 5400PA
EN 61730-1 & EN 61730-2:2007	TÜV Certified
UL1703 Ed:3 Rev:2004	Intertek Certified According to Safety Standard in the U.S.
ULC/ORD-C1703-01 Second Edition	Intertek Certified According to Safety Standard in Canada
IEC 61701 First Edition 1995.3	Salt Mist Test Standard
CEC Listing	http://www.gosolarcalifornia.org/equipment/ http://www.gosolarcalifornia.org/equipment/pv_modules.php

Limited Warranty***

Product	5Years
90% Output Power	10Years
80% Output Power	25Years