

Unit: in [mm]

Product Characteristics

Physical Specifications

|                       |   |
|-----------------------|---|
| Dimension [L x W x H] | 77.40 x 39.06x 1.65in (1966 x 992 x 42mm) |
| Module Area           | 20.99 sq. ft (1.95 m <sup>2</sup> )       |
| Weight                | 55 Lbs (25Kg)                             |

Electrical Characteristics: Performance at STC\*1

| Model Type                            | PM255   | PM260   | PM265   | PM270   |
|---------------------------------------|---------|---------|---------|---------|
| Peak Power Rating, Pmax               | 255W    | 260W    | 265W    | 270W    |
| Power Tolerance                       | ± 3%    | ± 3%    | ± 3%    | ± 3%    |
| Peak Power Voltage, Vpm               | 33.58 V | 33.85 V | 34.05 V | 34.39 V |
| Peak Power Current, Ipm               | 7.54 A  | 7.70 A  | 7.76 A  | 7.86 A  |
| Open Circuit Voltage, Voc             | 43.24 V | 43.46 V | 43.60 V | 44.03 V |
| Short Circuit Current, Isc            | 8.10 A  | 8.25 A  | 8.31 A  | 8.43 A  |
| Power Density [ W / ft <sup>2</sup> ] | 12.15   | 12.39   | 12.63   | 12.86   |
| Power Density [ W / m <sup>2</sup> ]  | 130.77  | 133.33  | 135.90  | 138.46  |
| Module Efficiency                     | 13.08%  | 13.33%  | 13.59%  | 13.85%  |

| Model Type                            | PM275   | PM280   | PM285   |
|---------------------------------------|---------|---------|---------|
| Peak Power Rating, Pmax               | 275W    | 280W    | 285W    |
| Power Tolerance                       | ± 3%    | ± 3%    | ± 3%    |
| Peak Power Voltage, Vpm               | 34.60 V | 34.80 V | 35.14 V |
| Peak Power Current, Ipm               | 7.92 A  | 7.98 A  | 8.07 A  |
| Open Circuit Voltage, Voc             | 44.24 V | 44.38 V | 44.74 V |
| Short Circuit Current, Isc            | 8.48 A  | 8.53 A  | 8.61 A  |
| Power Density [ W / ft <sup>2</sup> ] | 13.10   | 13.34   | 13.58   |
| Power Density [ W / m <sup>2</sup> ]  | 141.03  | 143.59  | 146.15  |
| Module Efficiency                     | 14.10%  | 14.36%  | 14.62%  |

\*STC: Standard Test Condition, 1000W/m<sup>2</sup>, 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*1132*1122mm) |
| Pallet Weight                 | 1481 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                 |

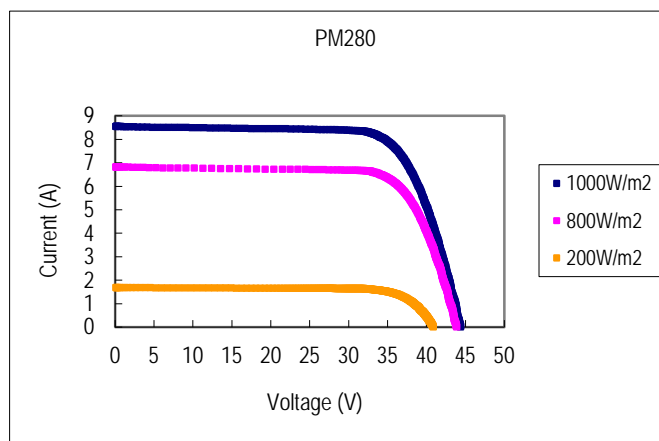
#### Limited Warranty\*\*\*

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

#### Component materials

|                       |  |
|-----------------------|--|
| Cell Qty per Module   | 72pcs  |
| Cell Type             | Polycrystalline Silicon  |
| Cell Dimensions       | 6 x 6 in (156 x 156 mm)  |
| Laminate Construction | Front: Tempered Glass<br>Encapsulation: Solar Cells Embedded in EVA (Ethylene-Vinyl-Acetate)<br>Rear: Tedlar<br>Color of back sheet: White                             |
| Glass                 | Low-Iron Tempered Glass<br>Standard thickness: 0.157in (=4mm)<br>(>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)<br>Cable Length: 39.37/39.37in. (1000/1000mm)<br>Wire Size: AWG #12, 4.0mm <sup>2</sup> , TÜV Certified & UL Listed |
| Connector             | Tyco Connectors, x2 (Male Coupler x1 + Female Coupler x1)<br>MC4 Connectors (Optional), x2 (Male Coupler x1 + Female Coupler x1)<br>TÜV Certified & UL Listed          |
| Frame                 | Anodized Aluminum Frame. Color: Silver / Black options   |

## 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 Corrosion Test  |

### Thermal Characteristics

|   |                  |
|---|------------------|
| NOCT (Nominal Operating Cell Temperature) °F, °C                | 120.38°F, 49.1°C |
| Temperature Coefficient TK Isc (Short Circuit Current) $\alpha$ | +0.123%/°C       |
| Temperature Coefficient TK Voc (Open Circuit Voltage) $\beta$   | -0.296%/°C       |
| Temperature Coefficient TK Pmax (Peak Power) $\gamma$           | -0.376%/°C       |

### Features:

Superior quality module make in Taiwan

Silver/black frame available with Tyco/MC4 connector

Passed & Complied with Salt Mist Corrosion Test Standard [IEC 61701 First Edition 1995.3]

High quality glass provides for less reflection of incoming sunrays.