



## 245W/250W/255W/260W

### Multicrystalline Silicon Solar Module



**Module Efficiency is up to 16%**, minimizing installation costs and maximizing the output of the system.

**1662.7x992.7x40mm** is suitable for residential and commercial on-grid system.

**Higher Durability**, Certified to withstand 2400 Pa wind load and 5400 Pa snow load.

**Higher Output**, Improved ribbon layout and cable length, Enhanced fill factor, Increased power output up to 1% by reducing power loss.

**Lower Junction Box Temperature**, Separated junction box design, Better heat dissipation, Lower diode operating temperature and life time.

#### Warranty

10 years Product Workmanship Warranty

25 years Linear Power Output Warranty:

Output power shall not be less than 97.5% in the first year

Loss shall not exceed 0.7% per year from year 2<sup>nd</sup> to 25<sup>th</sup>

#### Standards and Certification

ISO 9001:2008, ISO 14001:2004, TIS 18001:1999 and OHSAS 18001:2007 certified factories

CE Mark (EMC-Directive 2004/108/EC) certificate of European Conformity  
RoHS certified of directive on the restriction of the use of certain hazardous substances

TIS 1843-2553 (IEC61215) Crystalline silicon terrestrial photovoltaic modules, Thai Industrial Standards

TÜV Rheinland IEC61215, IEC61730, ANSI/UL 1703

MCS Certificate



TIS. 1843-2553

#### Mechanical Characteristics

<b>Solar Cell :</b>	60 Cells, 156x156 multicrystalline	<b>Junction box :</b>	IP67 Certified Junction Box
<b>Dimension :</b>	1662.7 x 992.7 x 40mm.	<b>Diodes :</b>	3 Schottky bypass diodes
<b>Weight :</b>	18 kg.	<b>Connector :</b>	MC4 compatible
<b>Construction :</b>	Front: High Transmission 3.2 mm. tempered glass; Rear: PET; Encapsulant: EVA	<b>Output cables :</b>	4.0 mm <sup>2</sup> 12 AWG cable. Cable length 315 mm.

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## Electrical Characteristics

STC Performance	SP245	SP250	SP255	SP260
Rated Power, Pm (W)	245	250	255	260
Open Circuit Voltage, Voc (V)	37.5	37.67	37.70	37.74
Short Circuit Current, Isc (A)	8.78	8.89	9.00	9.05
Maximum Power Voltage, Vmp (V)	29.56	30.01	30.40	30.70
Maximum Power Current, Imp (A)	8.29	8.34	8.40	8.47
Module Efficiency (%)	14.84	15.15	15.45	15.75
Maximum Power Tolerance (W)	-0 W, +3 W			
Maximum System Voltage (V)	1000			
Maximum Rated Current Series (A)	15			
Temperature coefficients of Pmax	-0.42 % / °C			
Temperature coefficients of Voc	-0.31 % / °C			
Temperature coefficients of Isc	0.04 % / °C			
Nominal operating cell temperature (NOCT)	45.0 °C (±2 °C)			

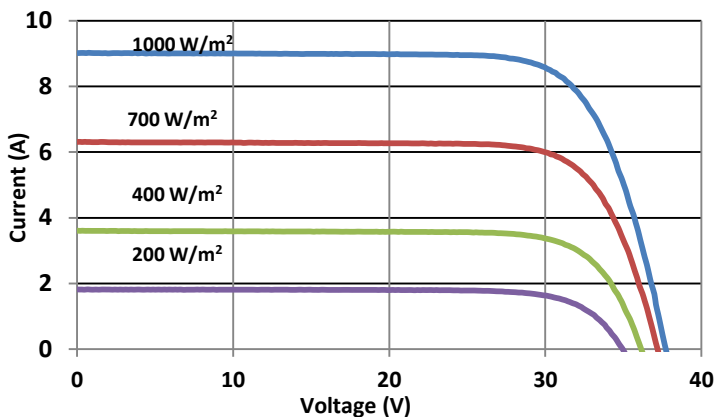
❖ STC: Irradiance of 1,000 W/m<sup>2</sup>, Air Mass AM1.5, Module Temperature 25 °C.

❖ Weaklight Performance at 200 W/m<sup>2</sup>: Efficiency of module shall not be less than 96% of STC efficiency.

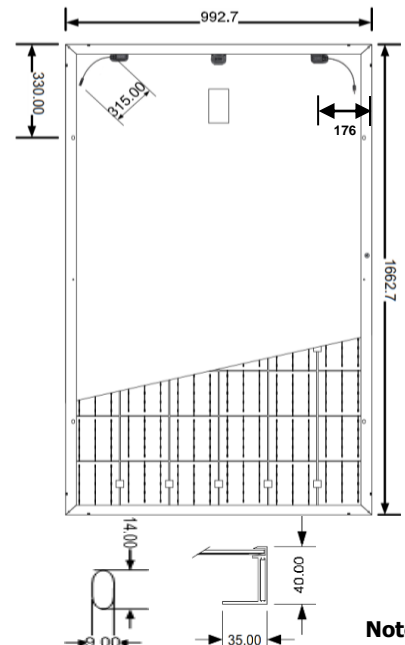
NOCT Performance	SP245	SP250	SP255	SP260										
Rated Power, Pm (W)	181.17	184.87	188.57	192.26										
Open Circuit Voltage, Voc (V)	34.54	34.69	34.72	34.75										
Short Circuit Current, Isc (A)	7.08	7.17	7.26	7.30 </tr <tr> <td>Maximum Power Voltage, Vmp (V)</td> <td>27.15</td> <td>27.56</td> <td>27.92</td> <td>28.20</td> </tr> <tr> <td>Maximum Power Current, Imp (A)</td> <td>6.67</td> <td>6.71</td> <td>6.75</td> <td>6.81</td> </tr>	Maximum Power Voltage, Vmp (V)	27.15	27.56	27.92	28.20	Maximum Power Current, Imp (A)	6.67	6.71	6.75	6.81
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Maximum Power Current, Imp (A)	6.67	6.71	6.75	6.81										

❖ NOCT: Irradiance of 800 W/m<sup>2</sup>, Ambient Temperature 20 °C, Wind Speed 1m/s.

I-V CURVES OF PV MODULE



DIMENSION OF PV MODULE



### Packaging Configuration

Modules per box	25 pieces
Container 20' HC	300 pieces
Container 40' HC	700 pieces