



# SOLARTRON

PUBLIC COMPANY LIMITED

## 250W/255W/260W/265W/270W Multicrystalline Silicon Solar Module



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

**992.7x1662.7x 40mm** is suitable for power plant 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 97.0 % 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 9001:2015 Quality Standard Certified.

> ISO 14001:2015 Environmental Standard Certified.

> ISO45001:2018 and TIS45001-2561 Occupational Health and Safety Standard Certified.

> IEC61215 Crystalline silicon terrestrial photovoltaic modules.

> IEC61730 Photovoltaic module safety qualification.

> Green Industry, DIW Certified.

> Made in Thailand, MiT Certified.



### Mechanical Characteristics

<b>Solar Cell :</b>	60 Cells, 156x156 multicrystalline	<b>Junction box :</b>	IP68 Certified Junction Box
<b>Dimension :</b>	1662.7 x 992.7 x 40 mm	<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: White PET; Encapsulant: EVA	<b>Output cables :</b>	4.0 mm <sup>2</sup> 12 AWG cable. Cable length 315 mm
<b>Frame :</b>	Anodized Aluminium Alloy	<b>Fire rating Class :</b>	C

### SOLARTRON PUBLIC COMPANY LIMITED

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### SOLARTRON FACTORY

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SP60C5O3J-V4-220421-G

## Electrical Characteristics

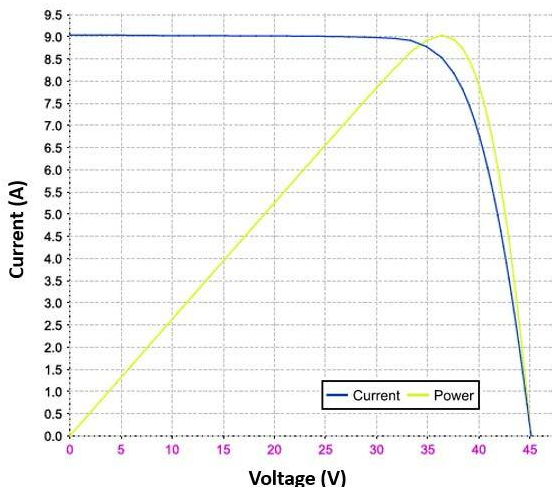
STC Performance	SP250	SP255	SP260	SP265	SP270
Rated Power, P <sub>m</sub> (W)	250	255	260	265	270
Open Circuit Voltage, V <sub>oc</sub> (V)	37.80	37.84	38.01	38.05	39.15
Short Circuit Current, I <sub>sc</sub> (A)	8.71	8.75	8.87	9.81	9.84
Maximum Power Voltage, V <sub>mp</sub> (V)	31.42	31.55	31.69	32.20	32.74
Maximum Power Current, I <sub>mp</sub> (A)	7.98	8.11	8.22	8.24	8.25
Module Efficiency (%)	15.18	15.50	15.77	16.07	16.36
Maximum Power Tolerance	± 5%				
Maximum System Voltage, IEC (V)	1000				
Maximum Series Fuse Rating, (Amp)	15				
Temperature coefficients of P <sub>max</sub>	-0.40 % / °C				
Temperature coefficients of V <sub>oc</sub>	-0.31 % / °C				
Temperature coefficients of I <sub>sc</sub>	0.06 % / °C				
Nominal operating cell temperature (NOCT)	45.0 °C (±2 °C)				

- ❖ Standard Test Conditions of Irradiance of 1,000 W/m<sup>2</sup>, Spectrum 1.5 AM , Module Temperature 25 °C
- ❖ Weaklight Performance at 200 W/m<sup>2</sup>: Efficiency of module shall not be less than 95.5% of STC efficiency

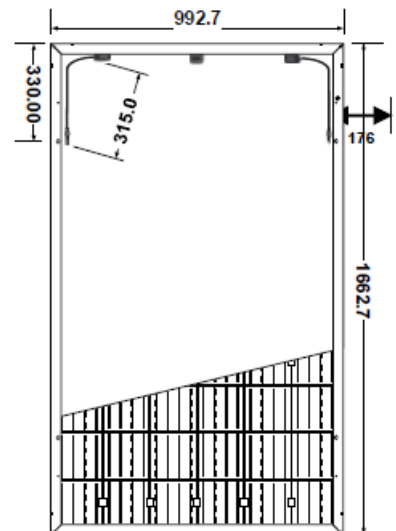
NOCT Performance	SP250	SP255	SP260	SP265	SP270
Rated Power, P <sub>m</sub> (W)	185	189	192	196	196
Open Circuit Voltage, V <sub>oc</sub> (V)	36.41	36.45	36.61	36.65	37.72
Short Circuit Current, I <sub>sc</sub> (A)	7.05	7.08	7.10	7.13	7.97
Maximum Power Voltage, V <sub>mp</sub> (V)	29.34	29.45	29.59	30.06	30.57
Maximum Power Current, I <sub>mp</sub> (A)	6.34	6.48	6.53	6.55	6.56

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

### I-V CURVES OF PV MODULE

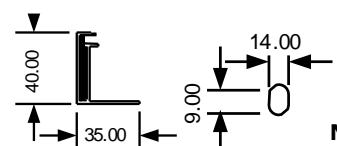


### DIMENSION OF PV MODULE



### Packaging Configuration

Modules per box	25 pieces
Container 20' HC	250 pieces
Container 40' HC	600 pieces



Note : mm