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EnergyPal

**Solar Panel Guide
Specification Data Sheet**

**Solartron Public Co., Ltd.
SP240W-265W
SP265**

Also available on the web at
EnergyPal.com/solartron-public-co-ltd-solar-panels/sp265



240W/245W/250W/255W/260W/265W 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 2nd to 25th

Standards and Certification

ISO 9001:2015, ISO 14001:2015, TIS 18001:2554 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

TIS 2580-2555 (IEC61730) Photovoltaic module safety qualification, Thai Industrial Standards

TÜV Rheinland IEC61215, IEC61730

JETPvm certification (IEC61215, IEC61730)

MCS – PV0222

UL 1703 by TÜV Rheinland



Mechanical Characteristics

Solar Cell :	60 Cells, 156x156 multicrystalline	Junction box :	IP67 Certified Junction Box
Dimension :	1662.7 x 992.7 x 40mm	Diodes :	3 Schottky bypass diodes
Weight :	18 kg.	Connector :	MC4 compatible
Construction :	Front: High Transmission 3.2 mm. tempered glass; Rear: White PET; Encapsulant: EVA	Output cables :	4.0 mm ² 12 AWG cable. Cable length 315 mm
Frame :	Anodized Aluminium Alloy	Fire rating Class :	C

SOLARTRON PUBLIC COMPANY LIMITED

SOLARTRON FACTORY

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Electrical Characteristics

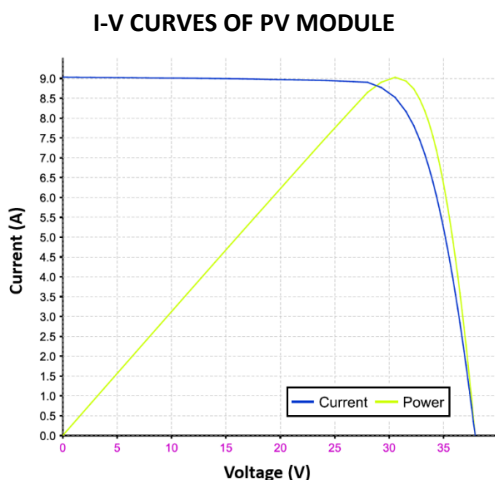
STC Performance	SP240	SP245	SP250	SP255	SP260	SP265
Rated Power, Pm (W)	240	245	250	255	260	265
Open Circuit Voltage, Voc (V)	37.00	37.50	37.67	37.70	37.74	37.78
Short Circuit Current, Isc (A)	8.75	8.78	8.89	9.00	9.05	9.09
Maximum Power Voltage, Vmp (V)	29.42	29.56	30.01	30.40	30.70	31.00
Maximum Power Current, Imp (A)	8.17	8.29	8.34	8.40	8.47	8.55
Module Efficiency (%)	14.54	14.84	15.15	15.45	15.75	16.06
Maximum Power Tolerance (W)	±3					
Maximum System Voltage, IEC (V)	1000					
Maximum System Voltage, UL (V)	600					
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/m², Air Mass AM1.5, Module Temperature 25 °C

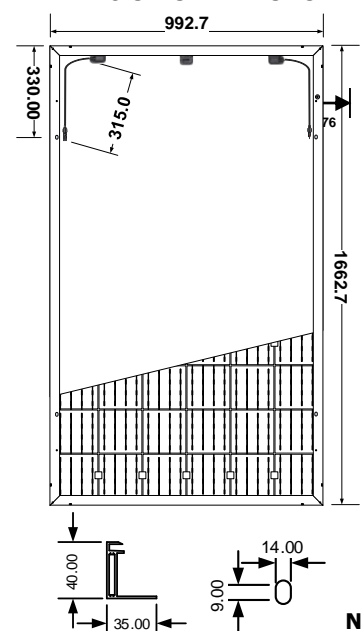
❖ Weaklight Performance at 200 W/m²: Efficiency of module shall not be less than 96% of STC efficiency

NOCT Performance	SP240	SP245	SP250	SP255	SP260	SP265
Rated Power, Pm (W)	177	181	185	189	192	196
Open Circuit Voltage, Voc (V)	34.08	34.54	34.69	34.72	34.75	35.31
Short Circuit Current, Isc (A)	7.06	7.08	7.17	7.26	7.30	7.33
Maximum Power Voltage, Vmp (V)	26.85	27.15	27.56	27.92	28.20	28.47
Maximum Power Current, Imp (A)	6.60	6.67	6.71	6.75	6.81	6.88

❖ NOCT: Irradiance of 800 W/m², Ambient Temperature 20 °C, Wind Speed 1m/s



DIMENSION OF PV MODULE



Packaging Configuration

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

Note : mm