



SOLARTRON

PUBLIC COMPANY LIMITED

290W/295W/300W/305W/310W/315W/320W/325W/330W/
335W/340W/345W/350W/355W/360W/365W/370W/375W/
380W/385W/390W/395W/400W/405W/410W/415W



Crystalline Silicon Solar PV Module

Performance :

- > **Module Efficiency is up to 21%**, minimizing installation costs and maximizing the output of the system.
- > **992 x 1956 x 35** is suitable for all solar power systems.
- > **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.
- > **Water resistant Junction Box** IP68, bypass diode with IP68.

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 2nd to 25th

Standards and Certification :

- > ISO 9001:2015 Quality Management Systems Standard Certified.
- > ISO 14001:2015 Environmental Management Systems Standard Certified.
- > ISO 45001:2018 Occupational Health and Safety Systems Standard Certified.
- > ISO 50001:2018 Energy Management Systems Standard Certified.
- > TIS 61215 No.1(1)-2561 / มอก.61215 เล่ม 1 (1) – 2561 เทียบเท่า IEC 61215-1-1:2016 Certified.
- > TIS 2580 No.2-2562 / มอก.2580 เล่ม 2 – 2562 เทียบเท่า IEC 61730-2:2016 Certified.
- > Green Industry, DIW Certified.
- > Made in Thailand, MIT Certified.



Solar Cell :

No. of Cells :

Dimension :



Mechanical Characteristics

Solar Cell :	158.75 x 158.75 mm (6 inches)	Junction box :	IP68
No. of Cells :	72 Cells	Diodes :	IP68 bypass diodes
Dimension :	992 x 1956 x 35 mm	Connector :	MC4 compatible
Weight :	21.4 kg.	Output cables :	4.0 mm ² 12 AWG cable. PV1-F Double insulation.
Construction :	Front: High Transmission 3.2 mm. tempered glass; Rear: White PET; Encapsulant: EVA	Fire rating Class :	C
Frame :	Anodized Aluminium Alloy		

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SOLARTRON FACTORY

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Eff. Date : 15/07/2026



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Electrical Characteristics

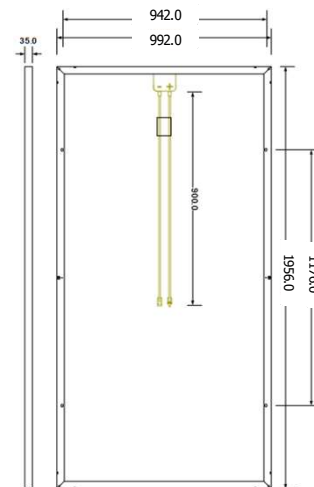
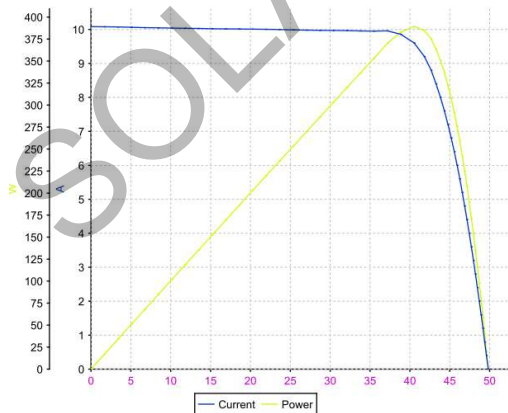
STC Performance	SP290	SP295	SP300	SP305	SP310	SP315	SP320	SP325	SP330	SP335	SP340	SP345	SP350
Maximum Power, P _m (W)	290	295	300	305	310	315	320	325	330	335	340	345	350
Open Circuit Voltage, V _{oc} (V)	43.83	44.13	44.43	44.70	45.00	45.03	45.63	45.93	46.23	46.53	47.01	47.50	47.70
Short Circuit Current, I _{sc} (A)	9.18	9.20	9.22	9.24	9.26	9.28	9.30	9.32	9.34	9.37	9.39	9.41	9.43
Maximum Power Voltage, V _{mp} (V)	35.40	35.60	35.90	36.20	36.40	36.70	36.95	37.17	37.39	37.61	38.02	38.42	38.72
Maximum Power Current, I _{mp} (A)	8.20	8.30	8.37	8.45	8.52	8.59	8.69	8.74	8.83	8.91	8.94	8.98	9.04
Module Efficiency (%)	14.95	15.20	15.46	15.72	15.98	16.23	16.49	16.75	17.01	17.26	17.52	17.78	18.04
STC Performance	SP355	SP360	SP365	SP370	SP375	SP380	SP385	SP390	SP395	SP400	SP405	SP410	SP415
Maximum Power, P _m (W)	355	360	365	370	375	380	385	390	395	400	405	410	415
Open Circuit Voltage, V _{oc} (V)	47.90	48.10	48.30	48.50	48.70	48.90	49.10	49.30	49.50	49.70	49.80	50.00	50.02
Short Circuit Current, I _{sc} (A)	9.48	9.53	9.58	9.65	9.72	9.81	9.89	9.97	10.01	10.07	10.10	10.13	10.16
Maximum Power Voltage, V _{mp} (V)	39.01	39.30	39.60	39.90	40.24	40.50	40.75	41.10	41.45	41.71	42.01	42.32	42.66
Maximum Power Current, I _{mp} (A)	9.10	9.16	9.22	9.27	9.32	9.39	9.45	9.49	9.53	9.59	9.64	9.69	9.73
Module Efficiency (%)	18.30	18.55	18.81	19.07	18.33	19.58	19.84	20.10	20.36	20.61	20.87	21.13	21.39

TEMPERATURE COEFFICIENTS

Maximum Power Tolerance (%)	±5
Maximum System Voltage, (V)	1000/1500
Maximum Series Fuse Rating, (Amp)	20
Temperature coefficients of P _{max}	-0.42 % / °C
Temperature coefficients of V _{oc}	-0.32 % / °C
Temperature coefficients of I _{sc}	+0.04 % / °C
Nominal operating cell temperature (NOCT)	45.0 °C (±2 °C)

❖ Standard Test Conditions of Irradiance of 1,000 W/m², Spectrum 1.5 AM , Module Temperature 25 °C

DIMENSION OF PV MODULE



Packaging Configuration

Modules per box	31 pieces
Container 20' HC	310 pieces
Container 40' HC	620 pieces

