

SENSKON

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Solar



SPNG-60P

275-290 Watt

POLY CRYSTALLINE



Key Features



IP68 junction box, connector

IP68 junction box and connector have a high degree of waterproof, effectively resist the harsh environment;



PID Resistant

Excellent PID resistance at 96 hours (85°C/85%) test, and also can be improved to meet higher standards for the particularly harsh environment;



Anti-Crack

Excellent anti-microcracking performance with more balanced interior stress;



15A current

The junction box carries a current of 15A, ensuring high current flow through the modules;



Super strong frame

Glue-spilled tank has a double-layer waterproof, cross-section with hook-shaped aluminum frame, enhanced by 10% of the mechanical load strength;

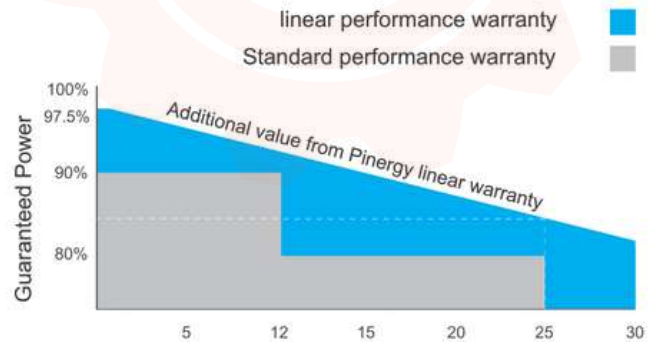


Strength and Durability

Certified for 5400Pa snow and 2400Pa Wind loads test;

Linear Performance Warranty

12 Years Product Warranty · 30 Years Linear Power Warranty



Certifications

- IEC 61215, IEC 61730, CE, CQC
- ISO9001: 2015: Quality management system
- ISO14001: 2015: Environmental management system
- ISO45001: 2018: Occupational health and safety management system



Electrical Specifications

Module Type	SPNG 60P-275		SPNG 60P-280		SPNG 60P-285		SPNG 60P-290	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated output (Pmp/Wp)	275	204	280	207	285	211	290	215
Rated voltage (Vmp/V)	31.4	29.2	31.6	29.3	31.8	29.6	32.0	29.9
Rated current (Imp/A)	8.76	6.99	8.86	7.07	8.96	7.14	9.06	7.19
Open circuit voltage (Voc/V)	38.0	35.1	38.5	35.6	38.7	35.8	38.9	36.0
Short circuit current (Isc/A)	9.18	7.43	9.29	7.52	9.38	7.59	9.49	7.67
Module efficiency (%)	16.80%		17.11%		17.41%		17.72%	
Power Tolerance (W)	0~+5							

Standard Test Condition (STC): Irradiance 1000W/m², Cell Temperature 25 °C, AM1.5

Nominal Module Operating Temperature (NOCT): Irradiance 800W/m², Ambient Temperature 20 °C, AM1.5, Wind Speed 1m/s

Mechanical Specifications

Cell Type	5BB POLY 157×157mm
No. of Cells	60 (6×10)
Dimension	1650x992x35mm
Weight	19kg
Glass	3.2mm, Low Iron Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 diodes
Output Cables	4mm ² , Length 900mm or customized
Connector type	MC4 compatible

Temperature Characteristics

NOCT Temperature	44 °C ±2 °C
Temperature Coefficient (Pmax)	-0.36%/ °C
Temperature Coefficient (Voc)	-0.29%/ °C
Temperature Coefficient (Isc)	0.06%/ °C

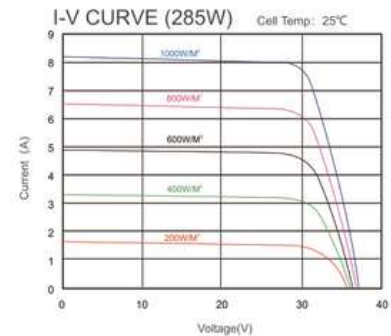
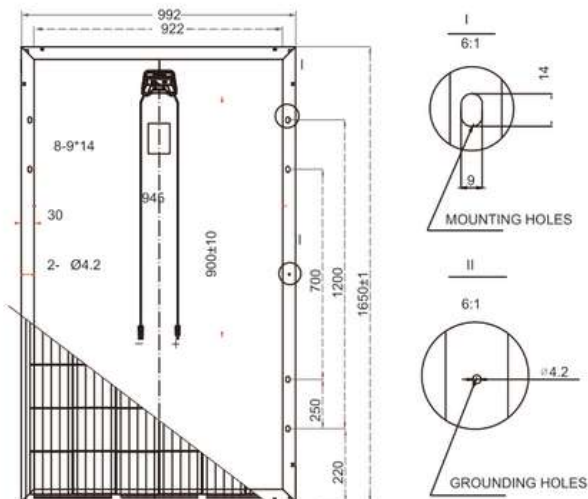
Maximum Ratings

Maximum system voltage (IEC)	1000 / 1500V DC
Snow / Wind	5400Pa / 2400Pa
Operating Temperature	-40 °C ~ +85 °C
Maximum series fuse rating	15A

Packaging Configurations

Per Pallet	31+37 pcs
Per 20' GP	434 pcs
Per 40' HQ Container	952 pcs

Engineering Drawings



Power voltage current curve at different temperature

