

SENSKON

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Solar



SPNG-132M(210)

645-670 Watt

MBB MONO PERC



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;



MBB half-cut cell technology

New circuit design, lower internal current, lower Rs loss



Significantly lower the risk of hot spot

Special circuit design with much lower hot spot temperature

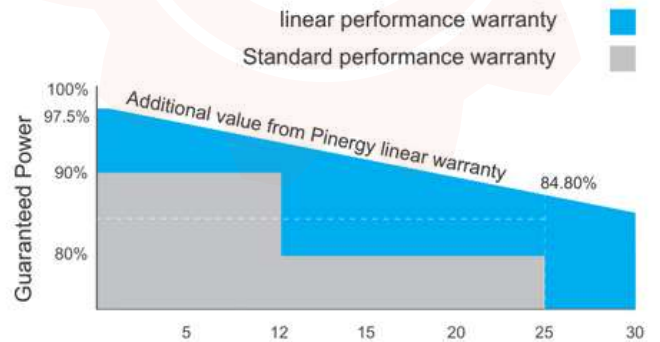


Lower LCOE

2% more power generation, lower LCOE

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	SPNG132M-645		SPNG132M-650		SPNG132M-655		SPNG132M-660		SPNG132M-665		SPNG132M-670	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated output (Pmp/Wp)	645	488	650	492	655	496	660	499	665	503	670	507
Rated voltage (Vmp/V)	37.2	34.7	37.4	34.9	37.6	35.1	37.8	35.3	38.0	35.5	38.2	35.6
Rated current (Imp/A)	17.34	14.06	17.38	14.09	17.42	14.13	17.46	14.16	17.50	14.19	17.54	14.22
Open circuit voltage (Voc/V)	45.0	42.4	45.2	42.6	45.4	42.8	45.6	43.0	45.8	43.1	46.0	43.3
Short circuit current (Isc/A)	18.41	14.84	18.46	14.88	18.50	14.92	18.55	14.96	18.60	15.00	18.65	15.04
Module efficiency (%)	20.76%		20.92%		21.09%		21.25%		21.41%		21.57%	
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	MBB MONO 210×105mm
No. of Cells	132 (6×22)
Dimension	2384x1303x35mm
Weight	34.0kg
Glass	3.2mm, Low Iron Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 diodes
Output Cables	4mm ² , Length 300mm or customized
Connector type	MC4 compatible

Temperature Characteristics

NOCT Temperature	44 C ±2 C
Temperature Coefficient (Pmax)	-0.36%/ C
Temperature Coefficient (Voc)	-0.28%/ C
Temperature Coefficient (Isc)	0.05%/ C

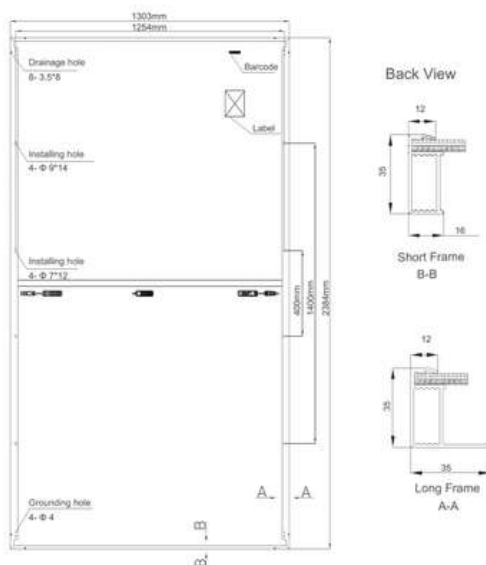
Maximum Ratings

Maximum system voltage (IEC)	1500V DC
Snow / Wind	5400Pa / 2400Pa
Operating Temperature	-40 C ~ +85 C
Maximum series fuse rating	30A

Packing Configurations

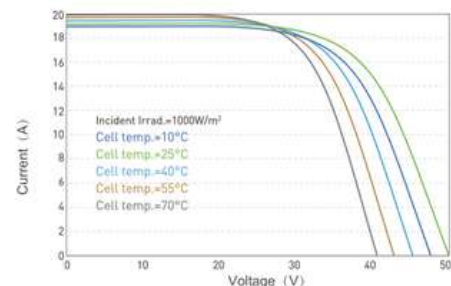
Per Pallet	31 Pcs
Per 40' HQ Container	527 Pcs

Engineering Drawings

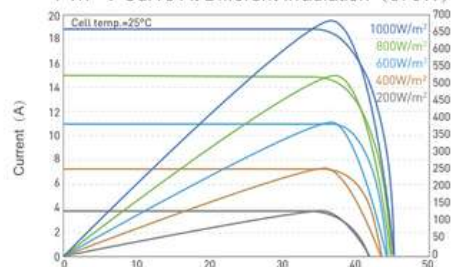


Curve & Temperature Dependence

I-V Curve At Different Temperature (670W)



I-V/P-V Curve At Different Irradiation (670W)



Caution: Read Installation Manual Before Using The Product