

SM-305PC8 72 cell-series

Polycrystalline PV Module



290 ~ 305 Watt

S-Energy: Quality for a Lifetime

Continuously manufacturing PV modules since 1991, S-Energy is one of the industry's most experienced PV module producers. Twenty years of field operating data support S-Energy's reputation as the best over-all quality, performance and value for solar investors. The cutting edge PC8 Series again leads the industry in advanced design, construction, and performance. The PC8 Series is the perfect building block for any system size in any environment. For confidence that lasts the lifetime of the PV system, specify the S-Energy PC8 Series modules.



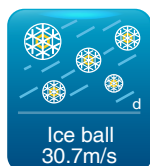
Features



POSITIVE TOLERANCE

0~+5W positive power sorting

0/+5W



HAIL IMPACT TEST

30.7m/s speed ball
(IEC Standard: 23 m/s)

Ice ball
30.7m/s



AMMONIA CORROSION RESISTANCE TEST

Applicable in agricultural and stock breeding environment

Chemical Resistance



SALT MIST CORROSION TEST

Applicable in marine environment

Corrosion Resistance



LINEAR WARRANTY

Max annual power decline 0.7%

Linear warranty

Qualifications & Certifications

IEC 61215 & 61730, CE, UL1703, MCS
ISO 9001, ISO 14001, OHSAS 18001, PV Cycle



Mechanical Characteristics

Solar cell	Polycrystalline 156mm x 156mm (6 inches)
No. of cells	72 cells 6 x 12 matrix
Dimensions	1985mm x 999mm x 50mm
Weight	23 kg (50.70 lbs)
Front glass	3.2mm High-transmittance low iron tempered glass
Frame	Anodized aluminum silver frame Option : black color / rail type
Output cables	PV Wire(PV1-F), 12AWG (4mm ²) / Cable length : 1200mm
Connectors	MC4 connectable

Warranty

Product warranty	10 years limited product warranty
Performance warranty	1 st year minimum peak power output : 97%
	2 nd year to 24 th year peak power output : max annual power decline 0.7%
	25 years peak power output : 80.2%

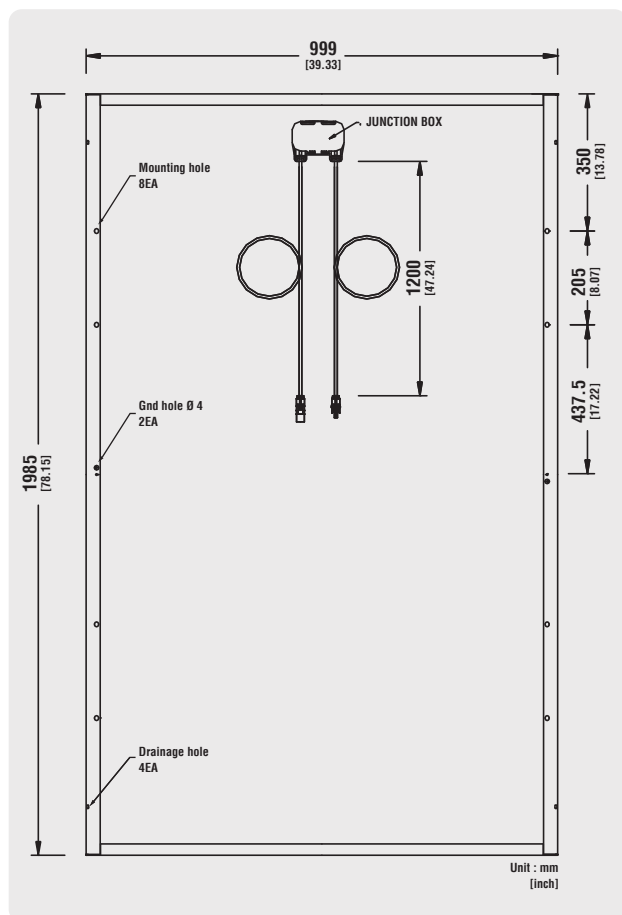
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Electrical Characteristics

STC (Irradiance 1000W/m ² , module temperature 25°C, AM=1.5)	SM-290PC8	SM-295PC8	SM-300PC8	SM-305PC8
Rated power (P _{max})	290W	295W	300W	305W
Voltage at P _{max} (V _{mp})	36.2V	36.3V	36.3V	36.5V
Current at P _{max} (I _{mp})	8.02A	8.14A	8.27A	8.36A
Warranted minimum P _{max}	290W	295W	300W	305W
Short-circuit current (I _{sc})	8.58A	8.67A	8.85A	8.92A
Open-circuit voltage (V _{oc})	44.7V	45.0V	45.1V	45.6V
Module efficiency	14.62%	14.87%	15.12%	15.38%
Operating module temperature	-40°C to +85°C			
Maximum system voltage	600VDC(UL) / 1000VDC(UL) / 1000VDC(IEC)			
Maximum series fuse rating	15A			
Maximum reverse current	20.25A			
Power tolerance	0 ~ +5 W			

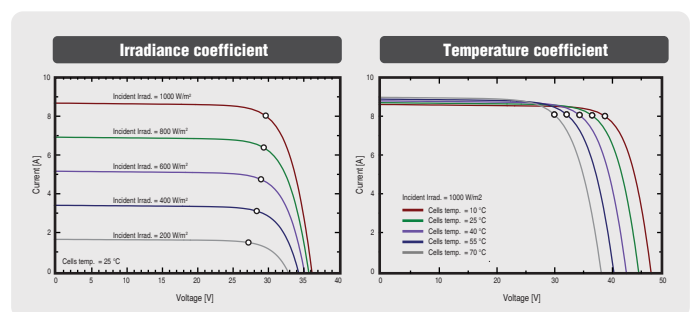


Temperature Characteristics

Temperature coefficient of I _{sc}	0.052% / °C
Temperature coefficient of V _{oc}	-0.312% / °C
Temperature coefficient of power	-0.429% / °C
NOCT (Air 20 °C ; Sun 0.8kW/m ² ; Wind 1m/s)	45±3 °C

Packing Configuration

Container	40' H/C
Modules Per pallet	20 pcs
Pallets Per container	22 pallets
Modules Per container	440 pcs



Remarks :

P_{max} measurement tolerance : ±3%
 S-Energy uses triple AAA class simulator.
 Specification subject to change without prior notice. S-Energy reserves the rights of final interpretation.
 Document : SE-Datasheet_305PC8_3BB_72_2014_EN_V04

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