

SM-305PC8 72 cell-series

Polycrystalline PV Module

S-ENERGY

290 ~ 305 Watt

New story creator, S-Energy

As the first company for PV industry in Korea, S-Energy has always been marking its name in every milestone of Korean PV history. Since 1992, we have been manufacturing PV modules and providing system integration service to our customers, and now we are proud to boast our world-wide recognition based on unbeatable quality standards and reliability. S-Energy's PC8 series is designed with our accumulated experience and cutting edge technology, and it will be the perfect choice for you which can be used in any environment and any installation conditions.

Features



Positive tolerance

0~+5W positive power sorting



Hail impact test

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



Ammonia corrosion resistance test

Applicable in agricultural
and stock breeding environment



Salt mist corrosion test

Applicable in marine environment



Linear warranty

Max annual power decline 0.7%



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	RHW-2, 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

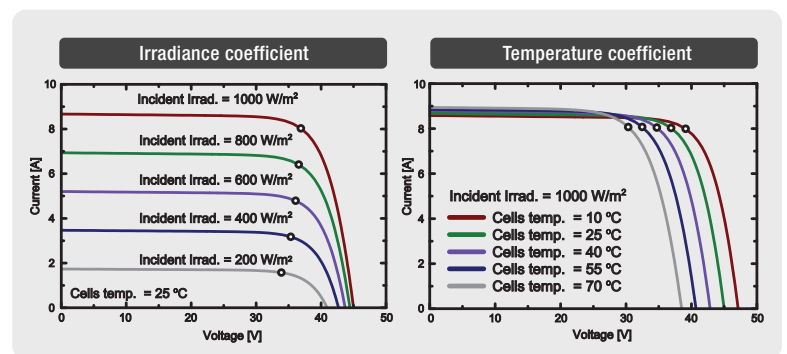
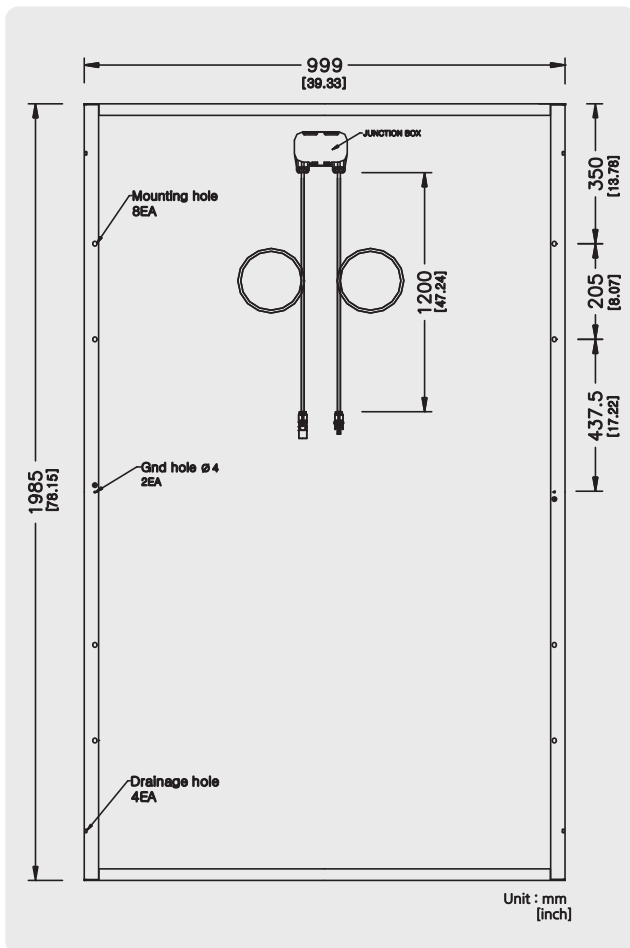
STC (Irradiance 1000W/m ² , module temperature 25°C, AM=1.5)	SM-290PC8	SM-295PC8	SM-300PC8	SM-305PC8
Rated power (P _{max})	290W	295W	300W	305W
Voltage at P _{max} (V _{mp})	36.2V	36.3V	36.3V	36.5V
Current at P _{max} (I _{mp})	8.02A	8.14A	8.27A	8.36A
Warranted minimum P _{max}	290W	295W	300W	305W
Short-circuit 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 (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 A class simulator.
 Specification subject to change without prior notice. S-Energy reserves the rights of final interpretation.
 Document : SE-Datasheet_305PC8_3BB_72_2013_V02

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