

SN310P-10

72 cell-series

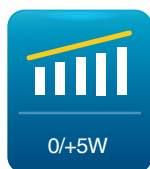
Polycrystalline PV Module



295 ~ 310 Watt

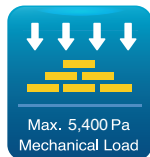
Continuously manufacturing PV modules since 1991, S-Energy is one of the most experienced module makers in the industry. More than 20 years of operating data support S-Energy's reputation as the best overall quality, performance, and value for solar investors. The cutting edge SN-Series leads the industry again in advanced design, construction, and performance. The SN-Series is the ideal module for any system size in any given environment. With the quality to last the lifetime of the PV system, S-Energy's SN-Series provides the confidence and assurance to each and every one of our customers.

Features



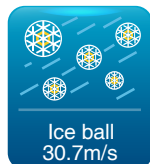
POSITIVE TOLERANCE

0~+5W positive power sorting



MECHANICAL LOAD

5,400 Pa (551 kg/m²)
(IEC Standard: 245 kg/m²)



HAIL IMPACT TEST

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



AMMONIA CORROSION RESISTANCE TEST

Applicable in agricultural and stock breeding environment



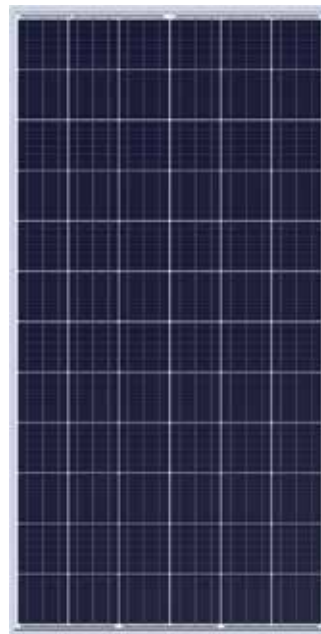
SALT MIST CORROSION TEST

Applicable in marine environment



LINEAR WARRANTY

Max annual power decline 0.7%



Qualifications & Certifications

IEC 61215 & 61730, CE
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	1970mm x 990mm x 40mm
Weight	20 kg (44.09 lbs)
Front glass	High-transmittance low iron tempered glass
Frame	Anodized aluminum silver frame
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%

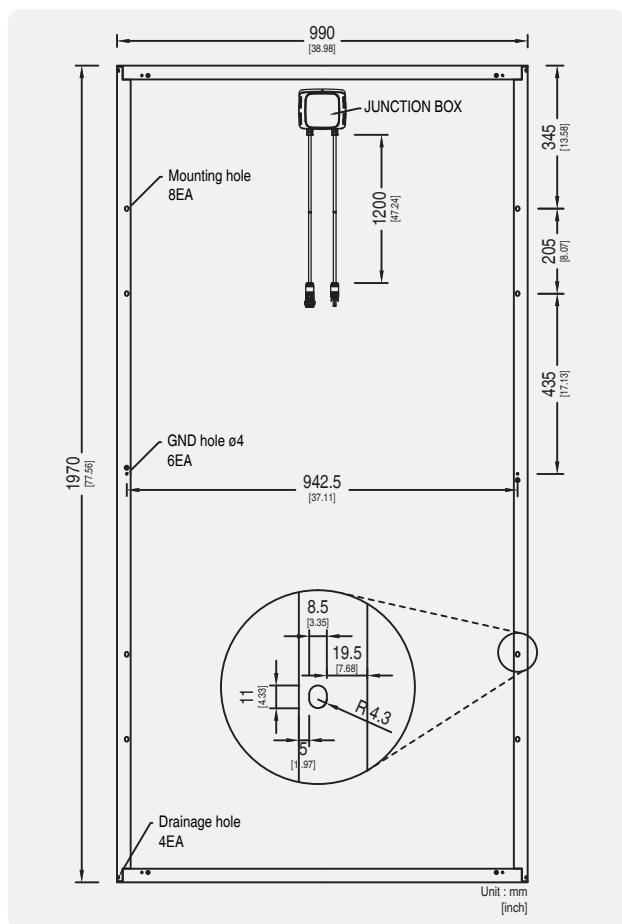
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Electrical Characteristics

STC (Irradiance 1000W/m ² , module temperature 25°C, AM=1.5)	SN295P-10	SN300P-10	SN305P-10	SN310P-10
Rated Power (P _{max})	295W	300W	305W	310W
Voltage at P _{max} (V _{mp})	35.2V	35.6V	36.0V	36.3V
Current at P _{max} (I _{mp})	8.39A	8.44A	8.47A	8.54A
Warranted Minimum P _{max}	295W	300W	305W	310W
Short-Circuit Current (I _{sc})	8.85A	8.88A	8.90A	8.96A
Open-Circuit Voltage (V _{oc})	44.8V	44.9V	45.1V	45.4V
Module Efficiency	15.13%	15.38%	15.64%	15.89%
Operating Module Temperature	-40°C to + 85°C			
Maximum System Voltage	1000VDC (IEC)			
Maximum Series Fuse Rating	15A			
Maximum Reverse Current	20.25A			
Power Tolerance	0 ~ +5 W			

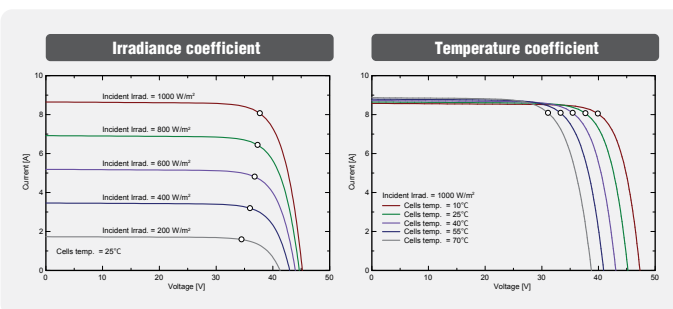


Temperature Characteristics

Temperature coefficient of I _{sc}	0.056 % / °C
Temperature coefficient of V _{oc}	-0.301 % / °C
Temperature coefficient of power	-0.398 % / °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	25 pcs
Pallets Per Container	22 pallets
Modules Per Container	550 pcs



Remarks :

P_{max} measurement tolerance : ±2.5%
 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_SN310P-10_3BB_72_2015_EN_V01.1

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