

SN 60-Cell 300 ~ 320W



T - Edition

1,000V / 1,500V Monocrystalline PV Module



QUALIFICATIONS & CERTIFICATIONS

IEC 61215 & 61730, UL 1703, ISO 9001,
ISO 14001, ISO 45001



FEATURES



Enhanced External Load/Impact

Snow Load : 5,400 Pa
Wind Load : 2,400 Pa
Hail Impact : 25m/s (speed ball)



Fire Safety

Safety Class II



Various Options Available

Black or Silver Frame
1000V or 1500V System Voltage
All Black Module



PID Resistance

Enhanced Potential Induced Degradation
Resistance

SN 60-Cell^{1,000V / 1,500V} Monocrystalline PV Module

SN300M-10T/15T · SN305M-10T/15T · SN310M-10T/15T · SN315M-10T/15T · SN320M-10T/15T



ELECTRICAL CHARACTERISTICS

STC (Irradiance 1,000W/m ² , module temperature 25°C, AM=1.5)	SN300M-10T/15T	SN305M-10T/15T	SN310M-10T/15T	SN315M-10T/15T	SN320M-10T/15T
Rated Power (P _{max})	300W	305W	310W	315W	320W
Voltage at P _{max} (V _{mp})	32.9V	33.2V	33.5V	33.9V	34.3V
Current at P _{max} (I _{mp})	9.12A	9.20A	9.26A	9.30A	9.34A
Warranted Minimum P _{max}	300W	305W	310W	315W	320W
Short-Circuit Current (I _{sc})	9.58A	9.64A	9.69A	9.75A	9.81A
Open-Circuit Voltage (V _{oc})	39.7V	39.9V	40.1V	40.3V	40.5V
Module Efficiency *	18.33%	18.63%	18.94%	19.24%	19.55%
Operating Module Temperature	-40°C to +85°C				
Maximum System Voltage	1,000V / 1,500V (DC)				
Maximum Series Fuse Rating	20A				
Power Tolerance	0 ~ +3%				

MECHANICAL CHARACTERISTICS

Solar Cells	Monocrystalline 156.75 x 156.75mm (6 inches)
Number of Cells	60 Cells (6x10 Matrix)
Dimensions	1,650 x 992 x 35mm
Weight	18.5kg
Front Glass	High-Transmittance Low Iron Tempered Glass
Frame	Anodized Aluminum Frame (Silver / Black)
Output Cables	PV Wire (PV1-F), 12AWG (4mm ²), Cable Length : 900mm
Connectors	MC4 Connectable

TEMPERATURE CHARACTERISTICS

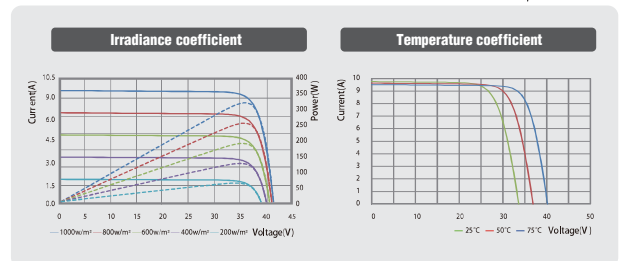
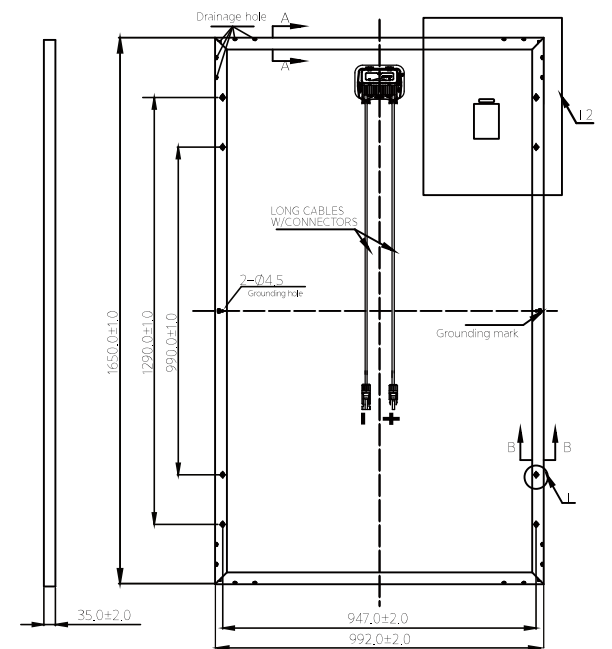
Temperature coefficient of I _{sc}	0.05 % / °C
Temperature coefficient of V _{oc}	-0.30 % / °C
Temperature coefficient of power	-0.39 % / °C
NMOT(Tair 20°C ; Irradiance 800W/m ² ; Wind 1m/s)	43±2 °C

WARRANTY

Product Warranty	10-year Limited Product Warranty
Performance Warranty	Minimum Power Output for Year 1 : 97% Maximum Power Decline from Year 2 to 24 : 0.71% Power Output in Year 25 : 80%

PACKING CONFIGURATION

Container	40' H/C
Modules Per Pallet	30pcs
Pallets Per Container	28pallets
Modules Per Container	840pcs



REMARKS

- P_{max} measurement tolerance : ±2.5%
- S-Energy uses tripleA class simulator.
- Specification subject to change without prior notice.
- S-Energy reserves the rights of final interpretation.

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