# SN 60-Cell 1,000V Monocrystalline PV Module

SN285M-10 SN290M-10 SN295M-10 SN300M-10



# 285 ~ 300 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**



o/+5 W

#### **ENHANCED EXTERNAL LOAD / IMPACT**

Snow Load: 5.400 Pa Wind Load : 2,400 Pa

Hail Impact: 30.7m/s (speed ball)







**Qualifications & Certifications** 

IEC 61215 & 61730, CE, ISO 9001 ISO 14001, OHSAS 18001, MCS, WEEE





### **POSITIVE TOLERANCE**

0~+5W positive power sorting



#### **LINEAR WARRANTY**

Max annual power decline 0.7%



#### PID RESISTANCE

**Enhanced potential induced degradation** 



#### **ENVIRONMENT RESISTANCE**

Suitable for extreme conditions Resistant to high salt mist and ammonia (certified by TÜV Rheinland)



#### **AVAILABLE IN TWO THICKNESSES**

Standard (30T) and 40T for more durability

#### **Mechanical Characteristics**

Solar Cells	Monocrystalline 156 x 156mm (6 inches)	
Number of Cells	60 Cells, 6 x 10matrix	
Dimensions	1,650 x 990 x 30mm (30T)	
Weight	17kg (37.48 lbs)	
Front Glass	High-Transmittance Low Iron Tempered Glass	
Frame	Anodized Aluminum Frame (Silver / Black)	
Output Cables	PV Wire (PV1-F), 12AWG (4mm²), Cable Length : 1,000mm	
Connectors	MC4 Connectable	

#### Warranty

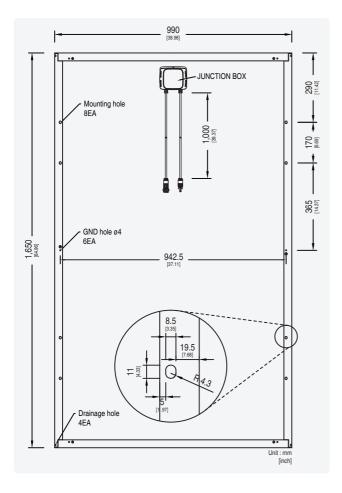
<b>Product Warranty</b>	10-year Limited Product Warranty	
Performance Warranty	Minimum Power Output for Year 1 : 97%	
	Maximum Power Decline from Year 2 to 24 : 0.7%	
	Power Output at year 25 : 80.2%	





#### **Electrical Characteristics**

STC (Irradiance 1,000W/m², module temperature 25°C, AM=1.5)	SN285M-10	SN290M-10	SN295M-10	SN300M-10
Rated Power (Pmax)	285W	290W	295W	300W
Voltage at Pmax (Vmp)	32.1V	32.6V	33.1V	33.6V
Current at Pmax (Imp)	8.87A	8.89A	8.91A	8.93A
Warranted Minimum Pmax	285W	290W	295W	300W
Short-Circuit Current (Isc)	9.46A	9.50A	9.54A	9.57A
Open-Circuit Voltage (Voc)	40.5V	40.7V	40.9V	41.0V
Module Efficiency	17.45%	17.75%	18.06%	18.37%
Operating Module Temperature	-40°C to + 85°C			
Maximum System Voltage	1,000V(IEC) / 1,000V(UL)			
Maximum Series Fuse Rating	15A			
Maximum Reverse Current	20.25A			
Power Tolerance	0 ~ +5 W			

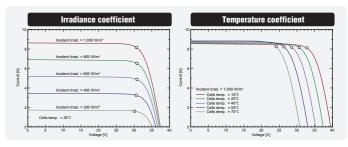


# **Temperature Characteristics**

Temperature coefficient of Isc	<b>0.052</b> %/°C
Temperature coefficient of Voc	<b>-0.312</b> % / °C
Temperature coefficient of power	<b>-0.429</b> % / °C
NOCT (Tair 20°C; Irradiance 800W/m²; Wind 1m/s)	<b>45±3</b> °C

## **Packing Configuration**

	30T	40T
Container	40' DRY	40' H/C
Modules Per Pallet	25pcs	25pcs
Pallets Per Container	26pallets	26pallets
Modules Per Container	650pcs	650pcs



#### Remarks:

Pmax 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.

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