

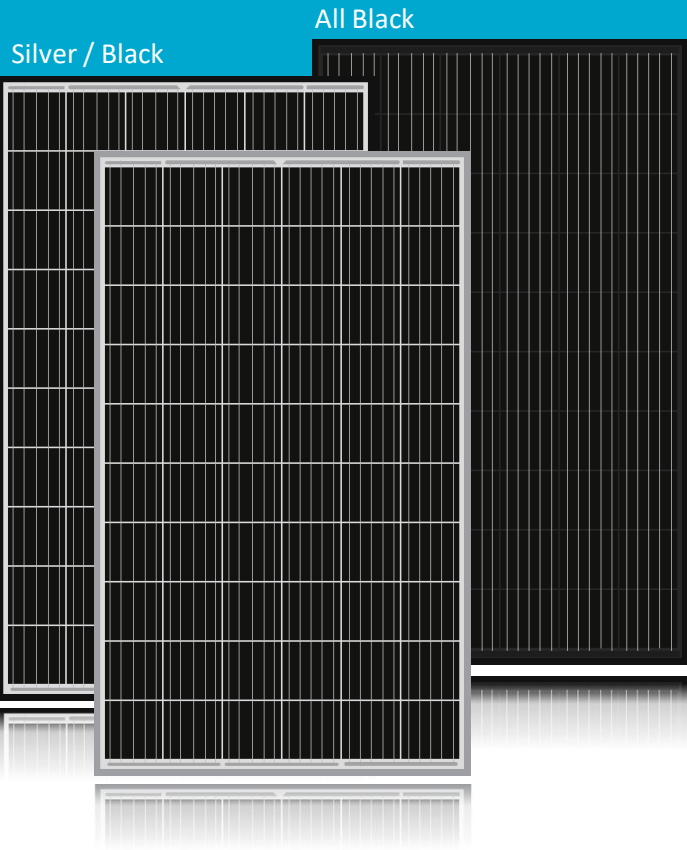
# SN20-60MAE/MBE/MCE

## 320/325/330



### Normal Series

1,000V Monocrystalline PV Module



### FEATURES



#### Enhanced External Load/Impact

Snow Load : 5,400 Pa  
Wind Load : 2,400 Pa



#### Fire Safety

Spread of Flame Class A  
Burning Brand Class C



#### PID Resistance

Enhanced Potential Induced Degradation Resistance



#### Higher power output

0~+5Wp Higher than rated power



#### Excellent performance under low light conditions

Cloudy days, mornings and evening



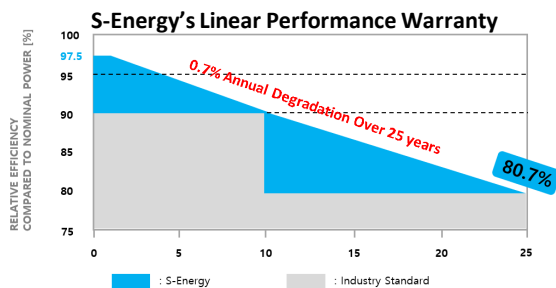
#### Various Options Available

Black or Silver Frame

### WARRANTY

12-years Product Warranty

25-years Linear Performance Warranty



### CERTIFICATIONS

IEC 61215, 61730 / UL 61730

ISO 9001 : Quality Management System

ISO 14001 : Environmental Management System

OHSAS 18001 : Occupational Health & Safety System



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Homepage



# SN20-60MAE/MBE/MCE

320W · 325W · 330W

1,000V

Monocrystalline PV Module

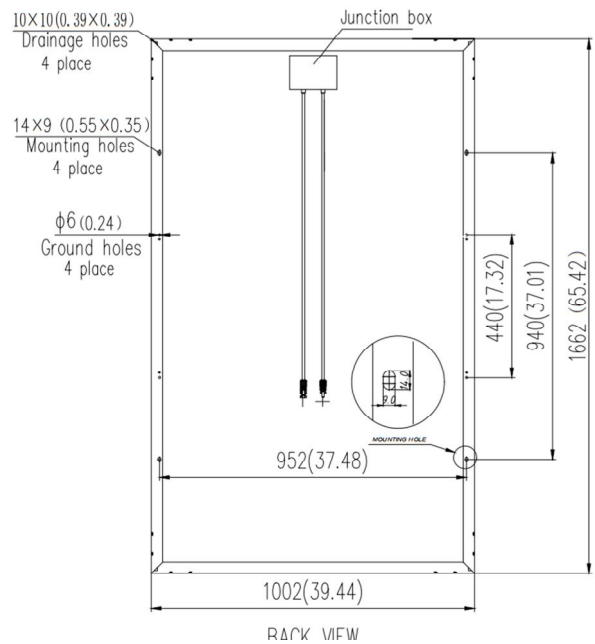


## ELECTRICAL CHARACTERISTICS

STC (Irradiance 1,000W/m <sup>2</sup> , module temperature 25°C, AM=1.5)	SN20-60MAE/MBE/MCE-320V	SN10-60MAE/MCE-325V	SN10-60MAE/MCE-330V
Rated Power (Pmax) Power	320W	325W	330W
Voltage at Pmax (Vmp)	33.4V	33.6V	33.8V
Current at Pmax (Imp)	9.59A	9.68A	9.77A
Warranted Minimum Pmax	320W	325W	330W
Short-Circuit Current (Isc)	10.12A	10.24A	10.34A
Open-Circuit Voltage (Voc)	40.6V	40.7V	40.9V
Module Efficiency *	19.22%	19.52%	19.82%
Operating Module Temperature	-40°C to +85°C		
Maximum System Voltage	1,000V		
Fuse Rating	20A		
Maximum Reverse Current	27A		
Power Tolerance	0 ~ +5W		

## MECHANICAL CHARACTERISTICS

<b>Solar Cells</b>	Monocrystalline Cells 158.75x158.75mm
<b>Number of Cells</b>	60 Cells (6x10 Matrix)
<b>Dimensions</b>	1,662 x 1,002 x 35mm
<b>Front Load</b>	5,400Pa
<b>Rear Load</b>	2,400Pa
<b>Weight</b>	18.6kg
<b>Front Glass</b>	3.2mm High-Transmittance Low Iron Tempered Glass
<b>Frame</b>	Anodized Aluminum Frame (Silver / Black)
<b>J-Box</b>	IP68 with 3 bypass diodes
<b>Output Cables</b>	PV Wire (PV1-F), 12AWG (4mm <sup>2</sup> ), Cable Length : 900mm
<b>Connectors</b>	MC4 Compatible



## TEMPERATURE CHARACTERISTICS

Temperature coefficient of Isc	0.05 % / °C
Temperature coefficient of Voc	-0.29 % / °C
Temperature coefficient of power	-0.39 % / °C
NOCT (Tair 20°C ; Irradiance 800W/m <sup>2</sup> ; Wind 1m/s)	45±2 °C

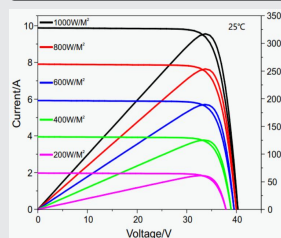
## PACKING CONFIGURATION

Container	20'	40'
Modules Per Pallet	30pcs	30pcs
Pallets Per Container	12pallets	28pallets
Modules Per Container	360pcs	840pcs

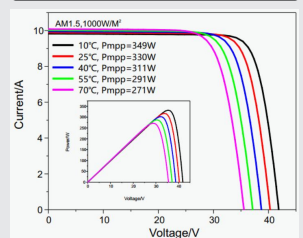
### REMARKS

- Pmax 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

### Irradiance coefficient



### Temperature coefficient



### NOTES

Installation instruction supplied with the module must be duly followed. For further information which is not mentioned on installation guides or directions, please contact to our technical service department.  
· E-mail : Inquiry@s-energy.com