

SDHYPER

"Make Difference, Make Better."

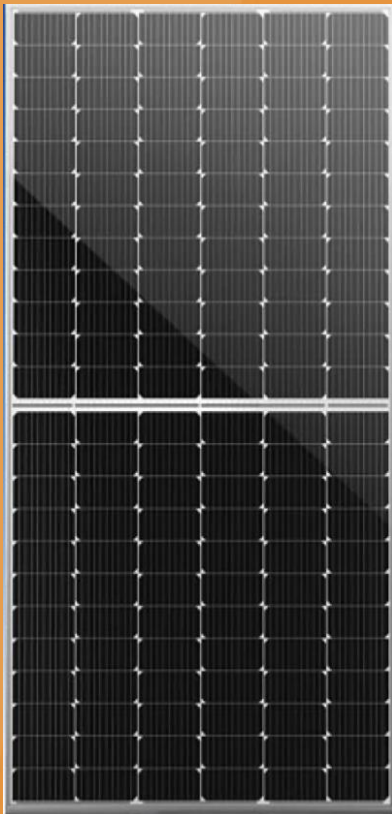
MONO

440-470W

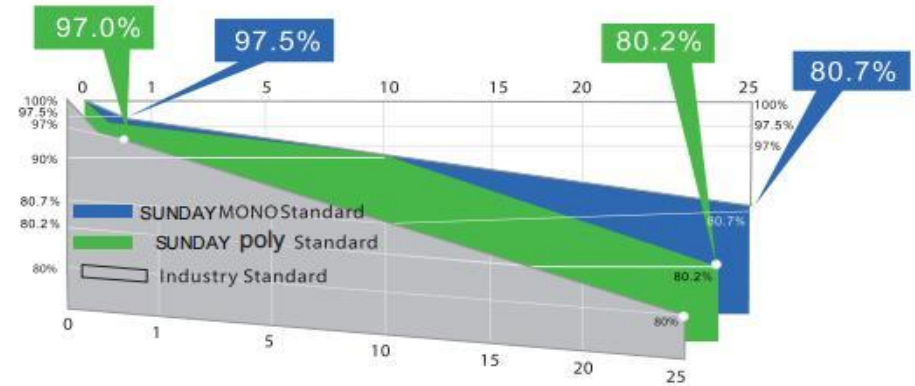
Sunday Energy Mono Half Modules

Assembled with the advanced gbusbar cell technology offer advantages of "higher power output, reduced series resistance loss and lower risk of "hotspot". In order to meet the customers' requirements of "best quality and efficiency."

SD-M6/144H



LINEAR PERFORMANCE WARRANTY



9BB 9BB cell design
Smaller electric current, less CTM loss
Lower risk of hot spot



ISO9001:2015 QMS
ISO14001:2015 EMS



IEC61215&IEC61730
standard quality



Wind load up to 3800Pa
Snow load up to 5400Pa



+5W 0-5W positive power sorting



Stable performance under
weak light conditions



25-year power warranty
10-year product warranty

MONO 440-470W SD-M6/144H

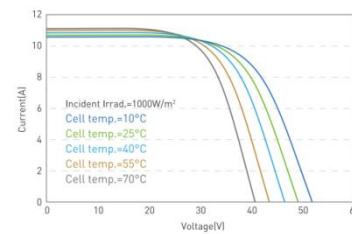
SD- M6/144H M/I-V

ELECTRICAL PARAMETERS

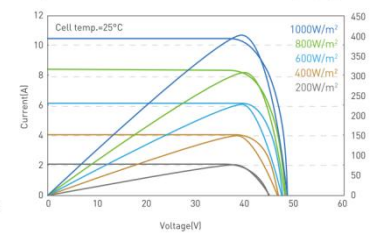
	SD-440M	SD-450M	SD-460M	SD-465M	SD-470M					
	STC NOCT	STC NOCT	STC NOCT	STC NOCT	STC NOCT					
Maximum Power (Pmax)	440W	326.08W	450W	333.48W	460W	340.94W	465W	344.57W	470W	348.28W
Open Circuit Voltage (Voc)	49.25V	46.30V	49.84V	46.70V	50.42V	47.10V	50.71V	47.30V	51.00V	47.50V
Short Circuit Current (Isc)	11.14A	9.13A	11.20A	9.26A	11.26A	9.38A	11.29A	9.44A	11.32A	9.50A
Voltage at Maximum Power (Vmp)	41.40V	37.90V	42.10V	38.30V	42.80V	38.70V	43.15V	38.90V	43.50V	39.10V
Current at Maximum Power (Imp)	10.63A	8.61A	10.69A	8.71A	10.75A	8.81A	10.78A	8.86A	10.81A	8.91A
Module Efficiency(%)	20.3%		20.7%		21.2%		21.4%		21.6%	

STC:Irradiance 1000W/m², cell temperature 25°C, AM1.5G
NOCT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1 m/s, AM1.5G

I-V Curve at Different Temperature (440W)



I-V/P-V Curve at Different Irradiation (440W)



Operating Module Temperature	-40°C + 85°C
Maximum System Voltage	1500V DC-(H)
Maximum Series Fuse Rating	15A
Power Tolerance	0/+5W

Temperature Characteristics

Nominal Operating Cell Temperature(Noct)	44 ± 2°C
Temperature Coefficient of Pmax	-0.390%/°C
Temperature Coefficient of Voc	-0.300%/°C
Temperature Coefficient of Isc	+0.060%/°C

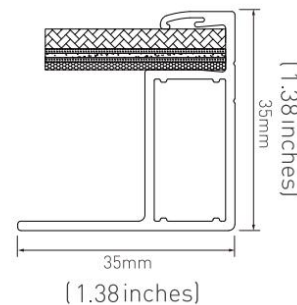
Packing Configuration

Container	20'GP	40'HQ
Pieces per pallet	31	31
Pallets per container	10	22
Pieces per container	310	682

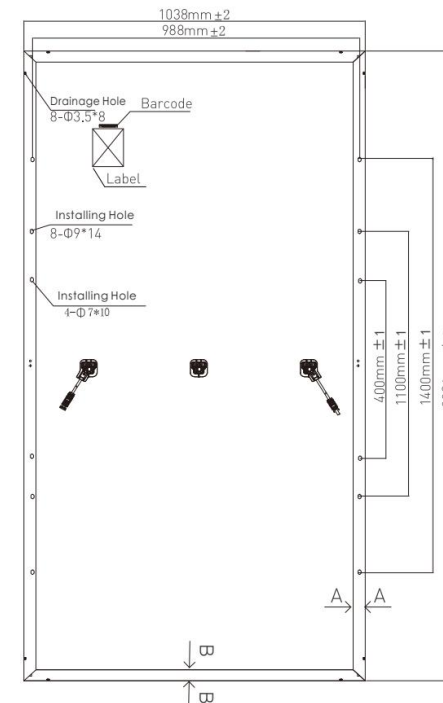
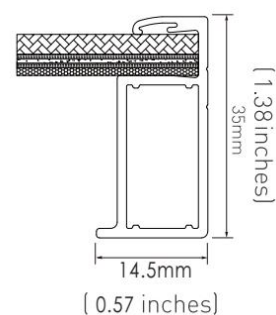
Packing Configuration

Solar Cell	166x83mm
No.of Cell	144(6x24)
Dimensions	2094x1038x35mm
Weight	24.3kg
Front	3.2mm coated tempered glass
Frame	Silver, anodized aluminium alloy
Junction Box	Ip68 rated
	4.0mm ²
Output Cables	300mm(+)/300mm(-)
	Length can be customized
Connectors	MC compatible
Mechanical load test	5400Pa

A-A



B-B



Note: Due to continuous technical innovation, R&D and creation, technical data above mentioned may be of modification timely, Sunday Energy has the own right to make such modification at anytime without future notice.

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