

Sunda 78M 480-500 Watt

MONO-FACIAL MODULE

P-Type

Positive power tolerance of 0~+3%

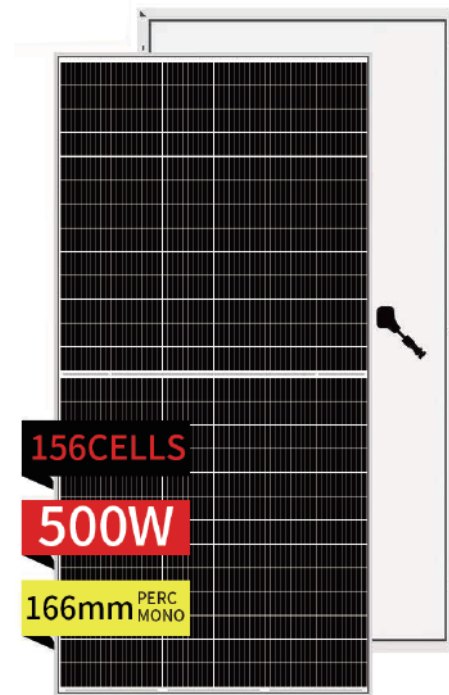
EN 55032:2015, EN55035:2017

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018

Occupational health and safety management systems



Key Features



Multi Busbar Technology

Better light trapping and current collection to improve module power output and reliability.



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



Reduced Hot Spot Loss

Optimized electrical design and lower operating current for reduced hot spot loss and better temperature coefficient.



Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

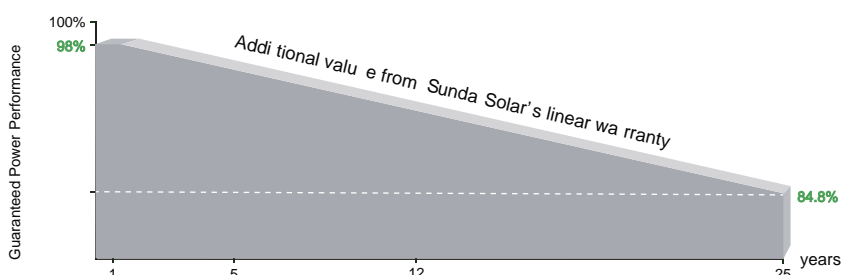


Longer Life-time Power Yield

0.55% annual power degradation and 25 year linear power warranty.



LINEAR PERFORMANCE WARRANTY

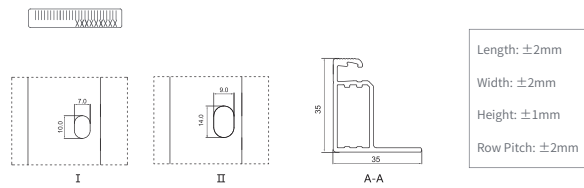
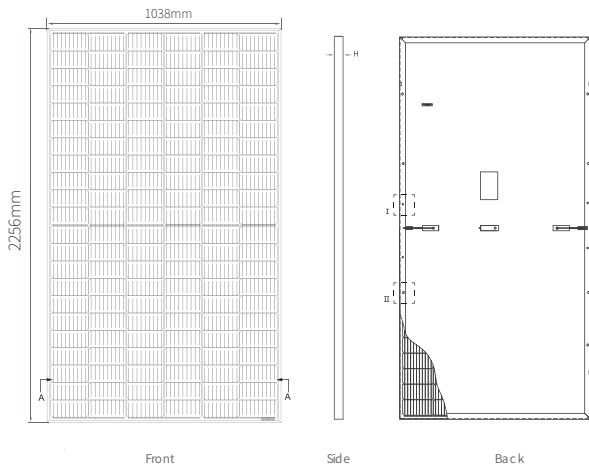


12 Year Product Warranty

25 Year Linear Power Warranty

0.55% Annual Degradation Over 25 years

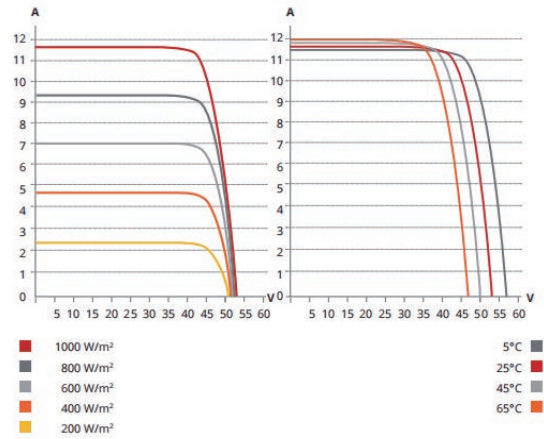
Engineering Drawings



Packaging Configuration

31 pieces per pallet, each container 620 pieces.

I-V CURVE



Mechanical Characteristics

Cell Type	166*166 Mono-crystalline
No. of cells	156 (6×26)
Dimensions	1038*2256*35mm(40.87*88.82*1.38inch)
Weight	31 kg (68.34lbs)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm ² (+): 400mm, (-): 200mm or Customized Length

SPECIFICATIONS

Module Type	SD480 M-78		SD485 M-78		SD490 M-78		SD495 M-78		SD500 M-78	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	480W	359W	485W	362W	490W	366W	495W	370W	500W	374W
Maximum Power Voltage (Vmp)	44.2V	41.3V	44.4V	41.5V	44.6V	41.7V	44.8V	41.8V	45.0V	42.0V
Maximum Power Current (Imp)	10.87A	8.70A	10.94A	8.74A	11.00A	8.78A	11.06A	8.86A	11.12A	8.91A
Open-circuit Voltage (Voc)	52.9V	49.9V	53.1V	50.1V	53.3V	50.2V	53.5V	50.4V	53.7V	50.6V
Short-circuit Current (Isc)	11.57A	9.33A	11.62A	9.38A	11.67A	9.42A	11.72A	9.46A	11.77A	9.50A
Module Efficiency STC (%)	20.4%		20.6%		20.8%		21.00%		21.2%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1000/1500VDC (IEC)									
Maximum series fuse rating	25A									
Power tolerance	0~+3%									
Temperature coefficients of Pmax	-0.35%/°C									
Temperature coefficients of Voc	-0.28%/°C									
Temperature coefficients of Isc	0.048%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									

*STC: Irradiance 1000W/m²

Cell Temperature 25°C

AM=1.5

NOCT: Irradiance 800W/m²

Ambient Temperature 20°C

AM=1.5

Wind Speed 1m/s