

# Sunda 78M 570-590 Watt

## MONO-FACIAL MODULE

### P-Type

Positive power tolerance of 0~+3%

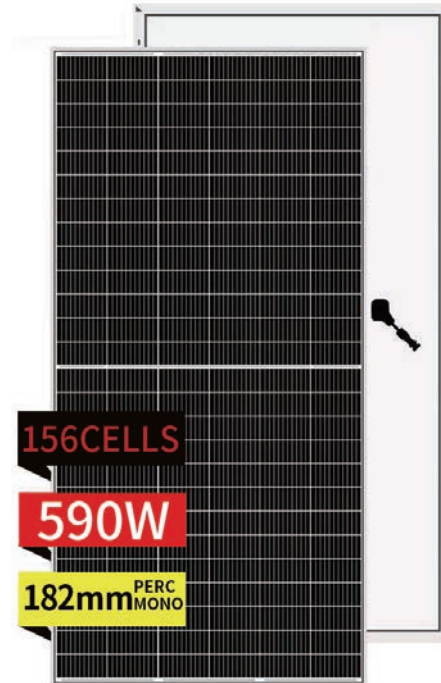
EN 55032:2015, EN55035:2017

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).

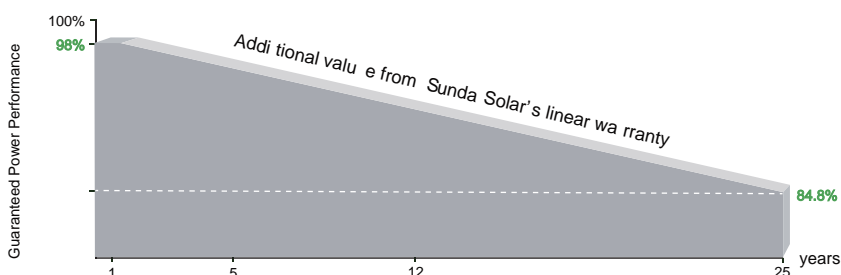


### Longer Life-time Power Yield

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



## LINEAR PERFORMANCE WARRANTY

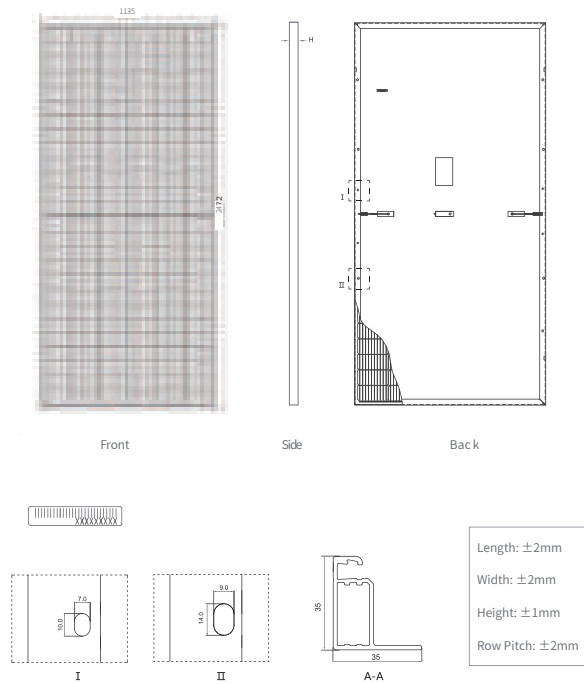


**12 Year Product Warranty**

**25 Year Linear Power Warranty**

**0.55% Annual Degradation Over 25 years**

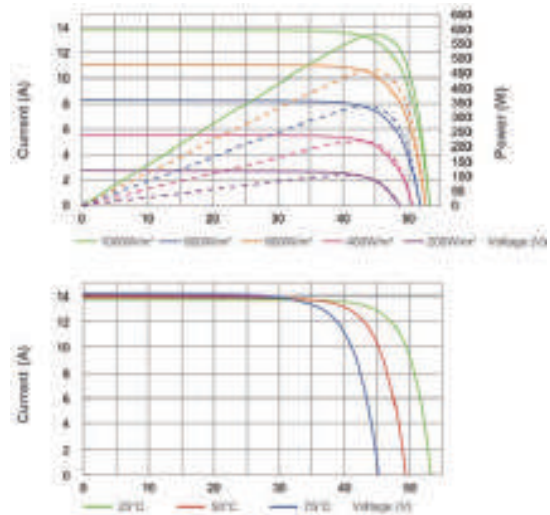
## Engineering Drawings



## Packaging Configuration

31 pieces per pallet, each container 598 pieces.

## I-V CURVE



## Mechanical Characteristics

Cell Type	182*182 Mono-crystalline
No. of cells	156(6×26)
Dimensions	2472×1135×35mm
Weight	31.5kg (69.45 lbs)
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 <sup>2</sup> (+): 400mm, (-): 200mm or Customized Length

## SPECIFICATIONS

Module Type	SD570M-78		SD75M-78		SD580M-78		SD585M-78		SD590M-78	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	570W	420W	575W	424W	580W	428W	585W	431W	590W	435W
Maximum Power Voltage (Vmp)	44.0V	41.1V	44.2V	41.3V	44.4V	41.4V	44.6V	38.25V	44.8V	41.8V
Maximum Power Current (Imp)	12.96A	10.22A	13.01A	10.27A	13.07A	10.32A	13.12	10.36A	13.49A	10.41A
Open-circuit Voltage (Voc)	52.9V	49.4V	53.1V	49.6V	53.3V	49.8V	53.5V	50.0V	53.7V	50.2V
Short-circuit Current (Isc)	13.69A	11.04A	13.75A	11.08A	13.81A	11.13A	13.87A	11.18A	13.94A	11.23A
Module Efficiency STC (%)	20.3%		20.5%		20.7%		20.9%		21.0%	
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/m<sup>2</sup>

Cell Temperature 25°C

AM=1.5

NOCT: Irradiance 800W/m<sup>2</sup>

Ambient Temperature 20°C

AM=1.5

Wind Speed 1m/s