



# SUNOVA SOLAR

Leading one-stop PV Supplier

## HI-M<sup>o</sup>ILO

# 540-555W

High Efficiency Half-Cell Mono PERC Module



Excellent low irradiance performance.



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



Industry leading lowest thermal co-efficient of power.



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

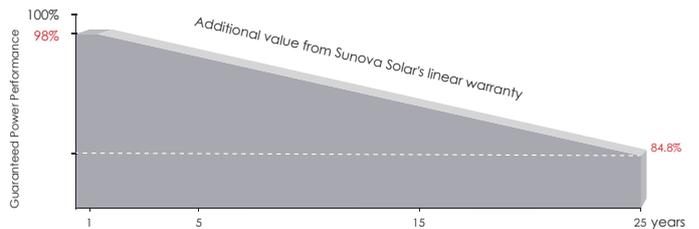


Certified to withstand: wind load (2400 Pa) and snow load (5400 Pa).



100% triple EL test enabling remarkable reduction of hidden crack rate of modules

## LINEAR PERFORMANCE WARRANTY



### 15

years  
Product quality & process guarantee

### 25

years  
Linear power guarantee

### 0.55

%  
Annual Degradation Over 25 years

## COMPREHENSIVE CERTIFICATES



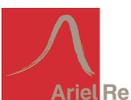
ISO 9001: Quality Management System

ISO 14001: Environmental Management System Standard

OHSAS 18001: International Occupational Health and Safety Assessment System Standard

\* Different markets have different certification requirements. Also, the products are under rapid innovation. Please confirm the certification status with regional sales representatives.

## PERFORMANCE INSURANCE



## ELECTRIC CHARACTERISTICS

Model of modules	SS-540-72MDH		SS-545-72MDH		SS-550-72MDH		SS-555-72MDH	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power — $P_{mp}$ (W)	540	402	545	406	550	410	555	414
Open-circuit voltage — $V_{oc}$ (V)	49.42	46.65	49.51	46.74	49.60	46.82	49.68	46.93
Short-circuit current — $I_{sc}$ (A)	13.85	11.19	13.94	11.27	14.04	11.35	14.13	11.42
Maximum power voltage — $V_{mp}$ (V)	40.71	38.11	40.76	38.19	40.83	38.25	40.89	38.32
Maximum power current — $I_{mp}$ (A)	13.27	10.56	13.38	10.64	13.48	10.73	13.58	10.81
Module efficiency — $\eta_m$ (%)	20.9%		21.1%		21.3%		21.5%	
Power tolerance (W)	(0,+5)							
Maximum system voltage (V)	1500							
Maximum rated fuse current (A)	25							
Current operating temperature (°C)	-40~+85 °C							

**STC** (Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25 °C, Spectra at AM1.5

**NOCT** (Nominal Operating Cell Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s

## STRUCTURAL CHARACTERISTICS

Module dimensions (L*W*H)	2279 x 1134 x 35 mm (89.72 x 44.65 x 1.38 inch)
Weight	27.6 kg (60.85 lbs)
Number of cells	144 cells
Cell	PERC Monocrystalline 182x91 mm (7.17 x 3.58 inch)
Glass	Tempered, 3.2 mm AR, High transmittance, Low iron
Frame	Anodized aluminum alloy
Junction box	IP68
Output wire	4.0 mm <sup>2</sup> , wire length: 300mm
Connector	MC4 Compatible
Mechanical load	Snow load: 5400 Pa / Wind load: 2400 Pa

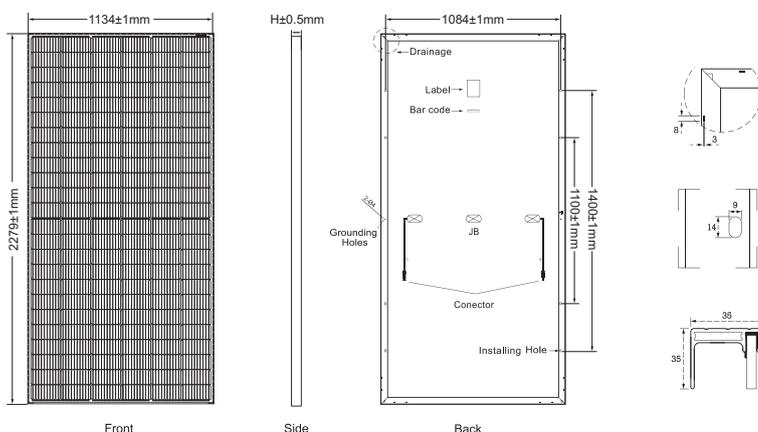
## TEMPERFORMANCE RATINGS

Temperature coefficient ( $P_{max}$ )	-0.35 %/°C
Temperature coefficient ( $V_{oc}$ )	-0.27 %/°C
Temperature coefficient ( $I_{sc}$ )	+0.048 %/°C
Nominal operating cell temperature	45±2 °C

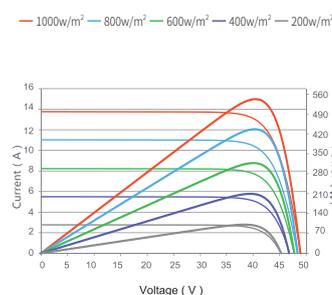
## PACKAGING CONFIGURATION

Container	40HQ
Quantity/pallet	31
Pallets/container	20
Quantity/container	620

## MODULE DIMENSIONS (MM)



Current-Voltage & Power-Voltage Curves (540W)



Temperature Dependence of  $I_{sc}$ ,  $V_{oc}$ ,  $P_{max}$

