



**Sal SERIES**  
**SS-550-72MDH**

# 520-550W

High Efficiency Half-Cell Mono PERC Module



Half-cut cell technology  
New circuit design,  
lower internal current,  
lower Rs loss



Special circuit design  
with much lower hot spot  
temperature



Fire safety  
(Class C, certified to TÜV  
Rheinland and Rheinland  
test standards)



Resistance to power  
attenuation passed TÜV  
Rheinland system voltage  
endurance test

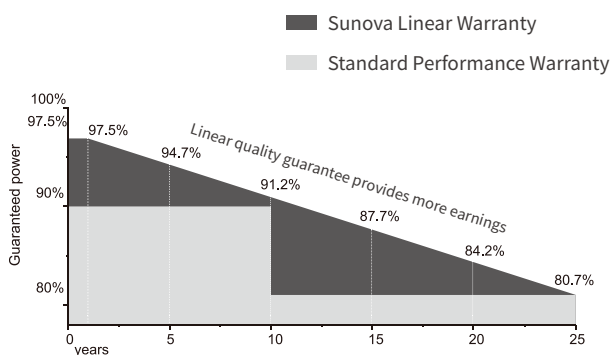


Resistance to salt-spray  
corrosion  
(IEC61701, certified to TÜV  
Rheinland test standard)



100% double 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

## COMPREHENSIVE CERTIFICATES



ISO 9001: Quality Management System

ISO 14001: Environmental Management System Standard

OHSAS 18001: International Occupational Health and  
Safety Assessment System Standard

## PRODUCT INSURANCE



# SS-550-72MDH 144 cells

## ELECTRIC CHARACTERISTICS

Model of modules	SS-520-72MDH		SS-530-72MDH		SS-540-72MDH		SS-550-72MDH	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power — P <sub>mp</sub> (W)	520	387	530	394	540	402	550	410
Open-circuit voltage — V <sub>oc</sub> (V)	49.10	46.34	49.26	46.50	49.42	46.65	49.60	46.82
Short-circuit current — I <sub>sc</sub> (A)	13.57	10.96	13.71	11.07	13.85	11.19	14.04	11.35
Maximum power voltage — V <sub>mp</sub> (V)	40.44	37.54	40.54	37.86	40.71	38.11	40.83	38.25
Maximum power current — I <sub>mp</sub> (A)	12.86	10.32	13.08	10.41	13.27	10.56	13.48	10.73
Module efficiency — η <sub>m</sub> (%)	20.12%		20.51%		20.89%		21.28%	
Power tolerance (W)	(0,+5)							
Maximum system voltage (V)	1500V							
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)	2279×1134×35mm
Weight	28.9 kg
Number of cells	144 cells
Cell	PERC Monocrystalline 182x91mm
Glass	Tempered, 3.2mm AR, High transmittance, Low iron
Frame	Anodized aluminum alloy
Junction box	IP68
Output wire	4.0 mm <sup>2</sup> , wire length: 1400mm
Connector	MC4 Compatible
Mechanical load	5400 Pa

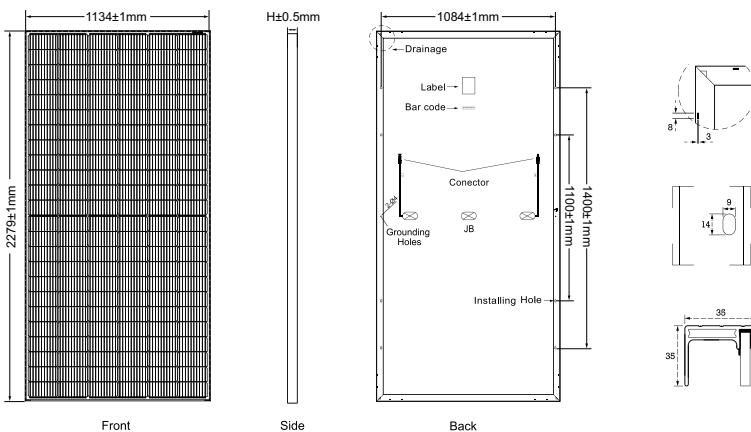
## TEMPERFORMANCE RATINGS

Temperature coefficient ( $P_{max}$ )	-0.35 %/°C
Temperature coefficient ( $V_{oc}$ )	-0.28 %/°C
Temperature coefficient ( $I_{sc}$ )	+0.048 %/°C
Nominal operating cell temperature	45±2 °C

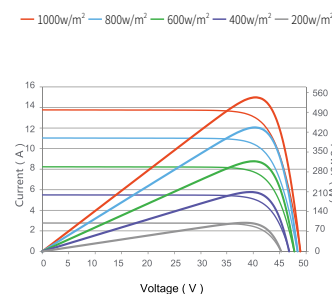
## PACKAGING CONFIGURATION

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

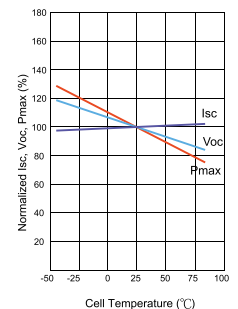
## MODULE DIMENSIONS (mm)



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



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



Add: 9 Huicheng Road, Huishan District, Wuxi, Jiangsu Province, P.R. China

E-mail: info@sunova-solar.com

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