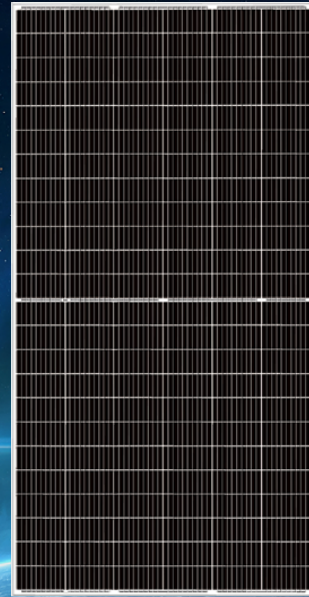




# SS-410-72MD 144cells

# 410W

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

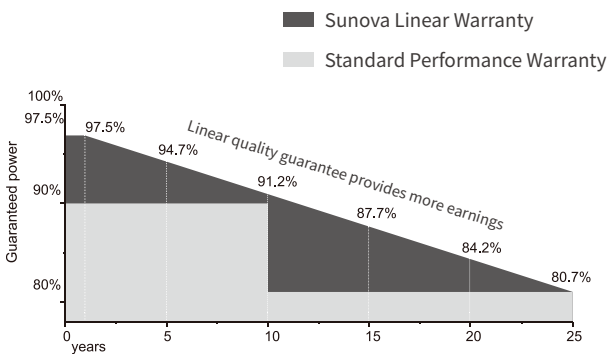


Resistance to salt-spray  
corrosion  
(IEC61701, certified to TÜV  
Rheinland test standard)



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-410-72MD 144cells

## ELECTRIC CHARACTERISTICS

Model of modules	SS-410-72MD SS-410-72MDH	
	STC	NOCT
Maximum power — $P_{mp}$ (W)	410	310
Open-circuit voltage — $V_{oc}$ (V)	48.99	46.35
Short-circuit current — $I_{sc}$ (A)	10.91	8.75
Maximum power voltage — $V_{mp}$ (V)	40.51	38.14
Maximum power current — $I_{mp}$ (A)	10.14	8.13
Module efficiency — $\eta_m$ (%)	20.38%	
Power tolerance (W)	(0,+5)	
Maximum system voltage (V)	1000V/1500V	
Maximum rated fuse current (A)	15	
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)	2008 x 1002 x 40mm
Weight	21.5 kg
Number of cells	144 cells (6x24)
Cell	PERC Monocrystalline 158.75x79.38mm
Glass	Tempered, 3.2mm AR, High transmittance, Low iron
Frame	Anodized aluminum alloy
Junction box	IP67
Output wire	4.0 mm <sup>2</sup> , wire length: 1200mm or Customized Length
Connector	MC4 Compatible
Mechanical load	5400 Pa

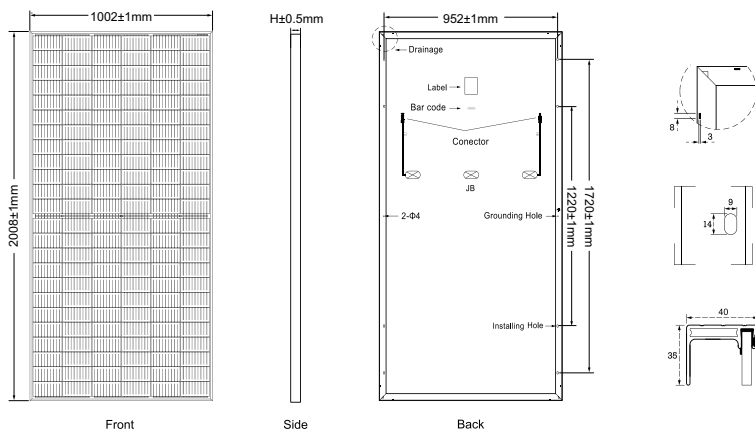
## TEMPERFORMANCE RATINGS

Temperature coefficient ( $P_{max}$ )	-0.37 %/°C
Temperature coefficient ( $V_{oc}$ )	-0.29 %/°C
Temperature coefficient ( $I_{sc}$ )	+0.05 %/°C
Nomial operating cell temperature	45±2 °C

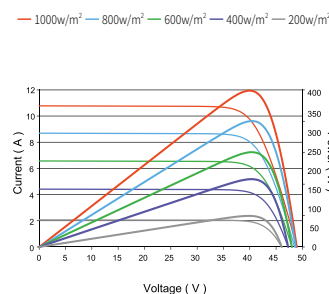
## PACKAGING CONFIGURATION

Container	20GP	40HQ
Quantity/pallet	27	27
Pallets/container	10	22
Quantity/container	270	660

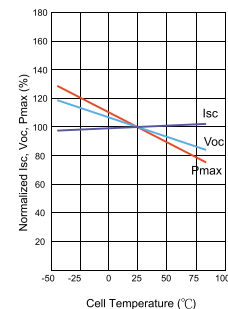
## MODULE DIMENSIONS (mm)



Current-Voltage & Power-Voltage Curves (410W)



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



Add: 28-1 Middle Nanhu Road, Binhu District, Wuxi, Jiangsu Province, P.R. China

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\* Sunova Solar Technology Co., Ltd reserves the right to make any adjustment to the information described herein without further notice. Please contact our company to use the latest version for contract.