



HI-KILO

400-410W

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

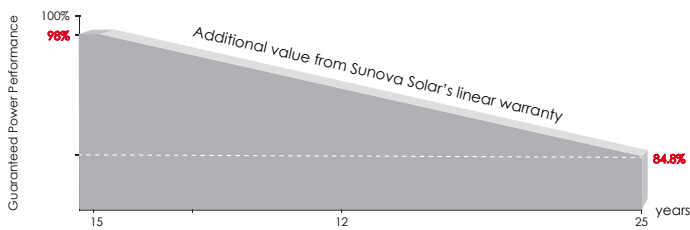


Resistance to salt-spray  
corrosion  
(IEC61701, certified to TÜV  
Rheinland test standard)



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

**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

### PRODUCT INSURANCE



# SS-410-54MDH 108 cells

## ELECTRIC CHARACTERISTICS

Model of modules	SS-400-54MDH		SS-405-54MDH		SS-410-54MDH	
	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power — $P_{mp}$ (W)	400	298	405	302	410	305
Open-circuit voltage — $V_{oc}$ (V)	37.18	34.95	37.33	35.09	37.68	35.42
Short-circuit current — $I_{sc}$ (A)	13.39	10.85	13.44	10.89	13.59	11.01
Maximum power voltage — $V_{mp}$ (V)	31.42	29.22	31.55	29.35	31.84	29.61
Maximum power current — $I_{mp}$ (A)	12.74	10.21	12.84	10.29	12.88	10.31
Module efficiency — $\eta_m$ (%)	20.37%		20.62%		20.87%	
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 1000 W/m<sup>2</sup>, Cell Temperature 25 °C, Spectra at AM1.5

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

## STRUCTURAL CHARACTERISTICS

Module dimensions (L*W*H)	1732 x 1134 x 35 mm
Weight	21 kg
Number of cells	108 cells
Cell	PERC Monocrystalline 182x91 mm
Glass	Tempered, 3.2 mm AR, High transmittance, Low iron
Frame	Anodized aluminum alloy
Junction box	IP68, 3 diodes
Output wire	4.0 mm <sup>2</sup> , wire length: 300 mm or Customized Length
Connector	MC4 Compatible
Mechanical load	5400Pa

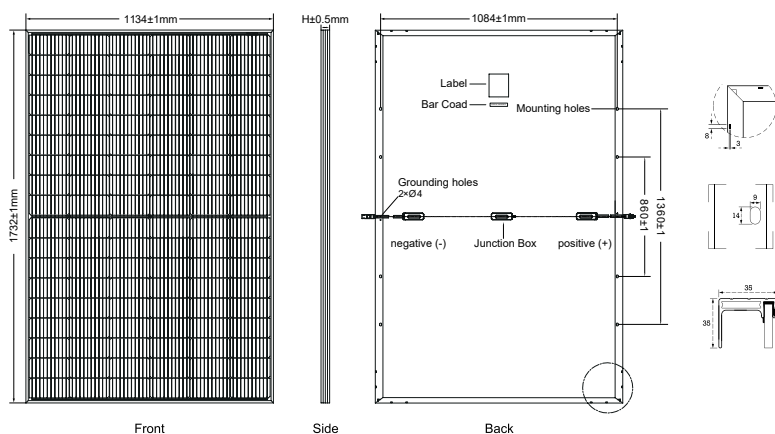
## TEMPERFORMANCE RATINGS

Temperature coefficient ( $P_{max}$ )	-0.35 %/°C
Temperature coefficient ( $V_{oc}$ )	-0.27 %/°C
Temperature coefficient ( $I_{sc}$ )	+0.05 %/°C
Nomial operating cell temperature	45±2 °C

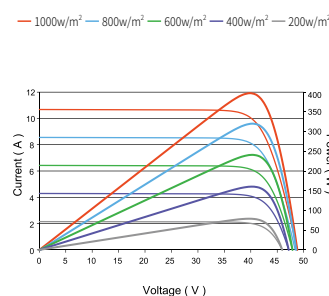
## PACKAGING CONFIGURATION

Container	40HQ
Quantity/pallet	31
Pallets/container	26
Quantity/container	806

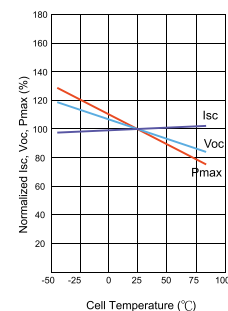
## MODULE DIMENSIONS (mm)



Current-Voltage & Power-Voltage Curves (400W)



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



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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.