

Sunova Solar Panels

HI-KILO Series
 SS-415-54MDH
400-415Wp



Nominal Power: 400-415Wp



Wind/Snow Load: 2400/5400Pa



Dimension: 1724 x 1134 x 30mm



Efficiency: Up to 21.2 %

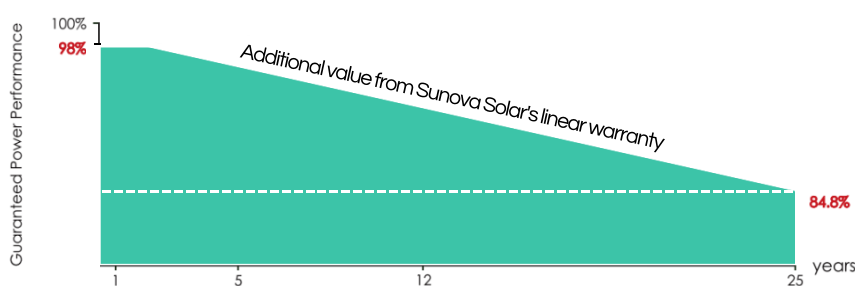


Maximum System Voltage: 1500 V



Weight: 21.5 kg

Linear Performance Warranty



25 Years

Linear power guarantee

15 Years

Product quality & process guarantee

0.55 %

Annual Degradation Over 25 years

Comprehensive Certificates

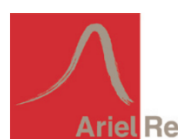


ISO 9001: Quality Management System

ISO 14001: Environmental Management System Standard

OHSAS 18001: International Occupational Health and Safety Assessment System Standard

Performance Insurance



中国平安

PING AN P & C INSURANCE CO CN SZN

Electric Characteristics

Model of modules	SS-400-54MDH		SS-405-54MDH		SS-410-54MDH		SS-415-54MDH	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power — P_{mp} (W)	400	298	405	302	410	305	415	309
Open-circuit voltage — V_{oc} (V)	37.18	34.95	37.33	35.09	37.68	35.42	37.79	35.59
Short-circuit current — I_{sc} (A)	13.39	10.85	13.44	10.89	13.59	11.01	13.72	11.12
Maximum power voltage — V_{mp} (V)	31.42	29.22	31.55	29.35	31.84	29.61	31.94	29.72
Maximum power current — I_{mp} (A)	12.74	10.21	12.84	10.29	12.88	10.31	13.01	10.42
Module efficiency — η_m (%)	20.5%		20.7%		21.0%		21.2%	
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/m², Cell Temperature 25 °C, Spectra at AM1.5

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s

Structural Characteristics

Module dimensions (L*W*H)	1724 x 1134 x 30 mm
Weight	21.5 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 ² , wire length: 300 mm or Customized Length
Connector	MC4 Compatible
Mechanical load	Snow load: 5400 Pa / Wind load: 2400 Pa

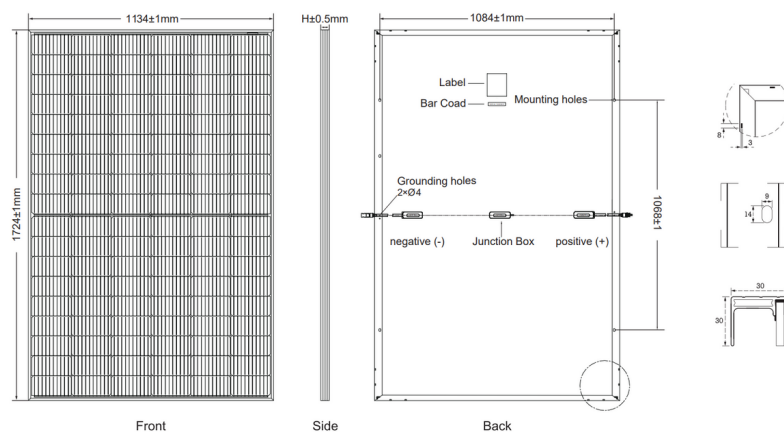
Temperature Performance Ratings

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

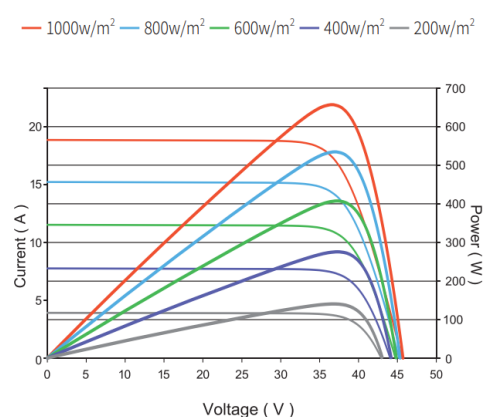
Packaging Configuration

Container	40HQ
Quantity/pallet	36
Pallets/container	26
Quantity/container	936

Module Dimensions (mm)



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



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

