

SUNOVA SOLAR

Leading one-stop PV Supplier

HI- K ILO 445-460W





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).

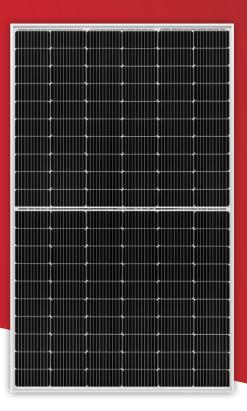


100% triple EL test enabling remarkable reduction of hidden crack rate of modules

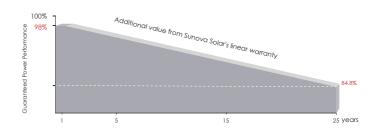
PERFORMANCE INSURANCE



* Ariel Re - contact sales staff for more info



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
ISO 45001:	International Occupational Health and
	Safety Assessment System Standard
4 m / f = 1	

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



ELECTRIC CHARACTERISTICS

Model of modules	SS-445-60MDH		SS-450-60MDH		SS-455-60MDH		SS-460-60MDH	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power — P _{mp} (W)	445	332	450	335	455	339	460	343
Open-circuit voltage — V_{oc} (V)	41.27	38.79	41.46	38.97	41.65	39.15	41.78	39.34
Short-circuit current $-I_{sc}(A)$	13.42	10.88	13.47	10.91	13.54	10.97	13.63	11.01
Maximum power voltage — V_{mp} (V)	34.46	32.05	34.62	32.19	34.78	32.35	34.89	32.52
Maximum power current — I_{mp} (A)	12.92	10.36	13.01	10.41	13.09	10.48	13.19	10.55
Module efficiency – η_m (%)	20.6%		20.9%		21.1%		21.3%	
Power tolerance (W)	(0,+5)							
Maximum system voltage (V)	ystem 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)	1903 x 1134 x 30 mm (74.92 x 44.65 x 1.18 inch)		
Weight	24 kg (52.91 lbs)		
Number of cells	120 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 ² , wire length: 300mm/customized		
Connector	MC4 Compatible		
Mechanical load	Snow load: 5400 Pa / Wind load: 2400 Pa		

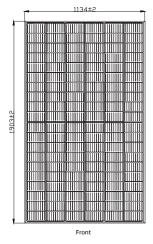
TEMPERFORMANCE RATINGS

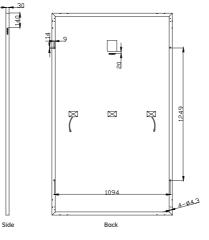
Temperature coefficient (P _{max})	-0.35 %/°C			
Temperature coefficient (V_{oc})	-0.28 %/°C			
Temperature coefficient (I_{sc})	+0.045 %/°C			
Nominal operating cell temperature	45±2 ℃			

PACKAGING CONFIGURATION

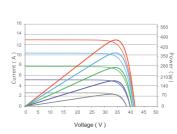
Container	40HQ			
Quantity/pallet	36			
Pallets/container	24			
Quantity/container	864			

MODULE DIMENSIONS (MM)





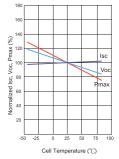
- 1000w/m² - 800w/m² - 600w/m² - 400w/m² - 200w/m²



Current-Voltage & Power-Voltage

Curves (460W)

Temperature Dependence of lsc,Voc,Pmax



* The unmarked tolerance is ±1 mm Length shown in mm



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