



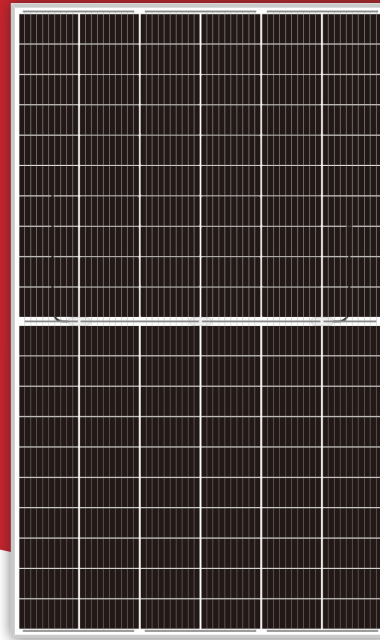
# SUNOVA SOLAR

Leading one-stop PV Supplier

## HI-C ILO

# 585-600W

High Efficiency Bifacial Dual Glass Mono Module



Bifacial technology enables additional energy harvesting from rear side (up to 30%)



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.

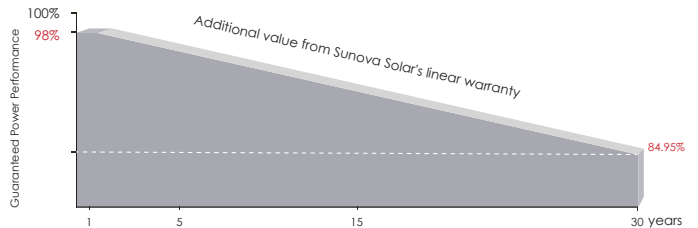


Certified to withstand: wind load (2400 Pa) and snow load (5400 Pa).



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

## LINEAR PERFORMANCE WARRANTY



**15** years

Product quality & process guarantee

**30** years

Linear power guarantee

**0.45** %

Annual Degradation Over 30 years

## COMPREHENSIVE CERTIFICATES



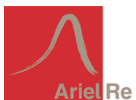
ISO 9001: Quality Management System

ISO 14001: Environmental Management System Standard

OHSAS 18001: International Occupational Health and Safety Assessment System Standard

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

## PERFORMANCE INSURANCE



**中国平安**

PING AN P & C INSURANCE CO CN SZH

## ELECTRIC CHARACTERISTICS

Model of modules	SS-BG585-60MDH-G12		SS-BG590-60MDH-G12		SS-BG595-60MDH-G12		SS-BG600-60MDH-G12	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power — $P_{mp}$ (W)	585	443	590	447	595	451	600	454
Open-circuit voltage — $V_{oc}$ (V)	41.13	38.73	41.31	38.92	41.54	39.12	41.72	39.32
Short-circuit current — $I_{sc}$ (A)	18.26	14.72	18.31	14.76	18.36	14.80	18.42	14.84
Maximum power voltage — $V_{mp}$ (V)	34.04	31.72	34.21	31.92	34.41	32.06	34.63	32.21
Maximum power current — $I_{mp}$ (A)	17.19	13.97	17.25	14.01	17.31	14.07	17.34	14.11
Module efficiency — $\eta_m$ (%)	20.7%		20.8%		21.0%		21.2%	

**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

## ELECTRICAL CHARACTERISTICS WITH DIERENT POWER BIN (REFERENCE TO 10% IRRADIANCE RATIO)

Maximum power — $P_{mp}$ (W)	626	631	637	642
Open-circuit voltage — $V_{oc}$ (V)	41.13	41.31	41.54	41.72
Short-circuit current — $I_{sc}$ (A)	19.58	19.63	19.71	19.74
Maximum power voltage — $V_{mp}$ (V)	34.04	34.21	34.41	34.63
Maximum power current — $I_{mp}$ (A)	18.40	18.45	18.52	18.55
Irradiance ratio (rear/front)	10%			

## STRUCTURAL CHARACTERISTICS

Module size (L*W*H)	2172 x 1303 x 35 mm
Weight	35.3 kg
Number of cells	120 cells
Cell	PERC Monocrystalline 210x105 mm
Glass	2.0 mm High Transmission, Antireflection Coating
Frame	Anodized aluminum alloy
Junction box	IP68, 3 bypass diodes
Output wire	4.0 mm <sup>2</sup>
Wire length	300 mm or Customized Length
Connector	MC4 Compatible
Packing Specification	31 pcs/Pallet; 558 pcs/40'HQ

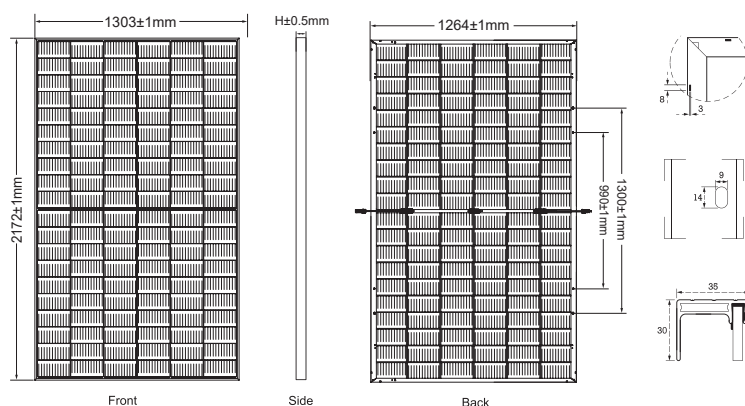
## OPERATING PARAMETERS

Power tolerance (W)	(0,+5)
Maximum system voltage (V)	1500
Maximum rated fuse current (A)	35
Current operating temperature (°C)	-40~+85 °C
Mechanical load	5400 Pa / 2400 Pa

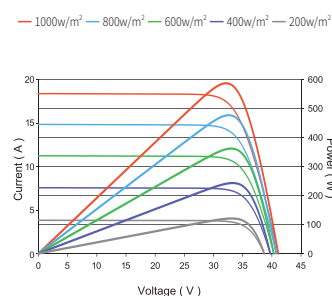
## TEMPERFORMANCE RATINGS

Temperature coefficient ( $P_{max}$ )	-0.34%/°C
Temperature coefficient ( $V_{oc}$ )	-0.25%/°C
Temperature coefficient ( $I_{sc}$ )	+0.04%/°C
Nominal operating cell temperature	43±2 °C

## MODULE DIMENSIONS (MM)



Current-Voltage & Power-Voltage Curves (595W)



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

