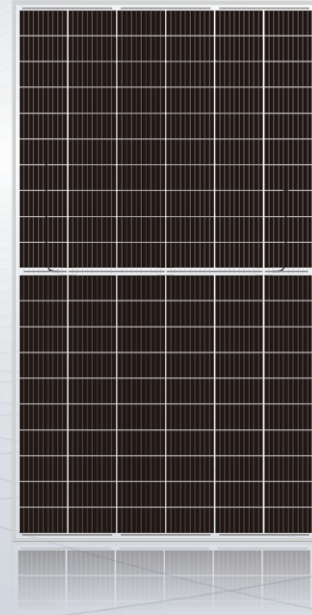




HI-CILO

580-600W

High Efficiency Bifacial Dual Glass Mono 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

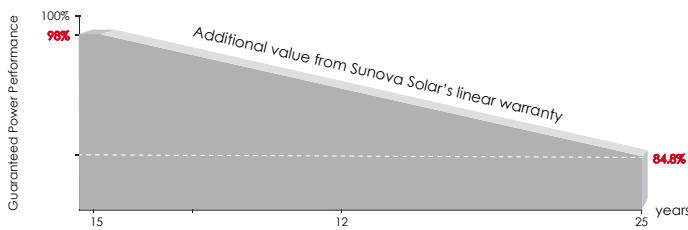


Resistance to salt-spray
corrosion
(IEC61701, certified to TÜV
Rheinland test standard)



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-BG600-60MDH-G12 120 cells

ELECTRIC CHARACTERISTICS

Model of modules	SS-BG580-60MDH-G12		SS-BG585-60MDH-G12		SS-BG590-60MDH-G12		SS-BG595-60MDH-G12		SS-BG600-60MDH-G12	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power — P_{mp} (W)	580	439	585	443	590	447	595	451	600	454
Open-circuit voltage — V_{oc} (V)	45.27	38.51	41.13	38.73	41.31	38.92	41.54	39.12	41.72	39.32
Short-circuit current — I_{sc} (A)	18.58	14.68	18.26	14.72	18.31	14.76	18.36	14.80	18.42	14.84
Maximum power voltage — V_{mp} (V)	37.24	31.53	34.04	31.72	34.21	31.92	34.41	32.06	34.63	32.21
Maximum power current — I_{mp} (A)	17.46	13.93	17.19	13.97	17.25	14.01	17.31	14.07	17.34	14.11
Module efficiency — η_m (%)	20.49%		20.67%		20.85%		21.02%		21.20%	

STC (Standard Testing Conditions): Irradiance 1000 W/m², Cell Temperature 25 °C, Spectra at AM1.5

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

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

Maximum power — P_{mp} (W)	621	626	631	637	642
Open-circuit voltage — V_{oc} (V)	40.92	41.13	41.31	41.54	41.72
Short-circuit current — I_{sc} (A)	19.55	19.58	19.63	19.71	19.74
Maximum power voltage — V_{mp} (V)	33.81	34.04	34.21	34.41	34.63
Maximum power current — I_{mp} (A)	18.37	18.40	18.45	18.52	18.55
Irradiance ratio (rear/front)	10%				

STRUCTURAL CHARACTERISTICS

Module size (L*W*H)	2172 x 1303 x 30 mm
Weight	35.3 kg
Number of cells	120 cells
Cell	PERC Monocrystalline 210x105 mm
Glass	3.2 mm High Transmission, Antireflection Coating
Frame	Anodized aluminum alloy
Junction box	IP68, 3 bypass diodes
Output wire	4.0 mm ²
Wire length	300 mm or Customized Length
Connector	MC4 Compatible
Packing Specification	36 pcs/Pallet; 648 pcs/40'HQ

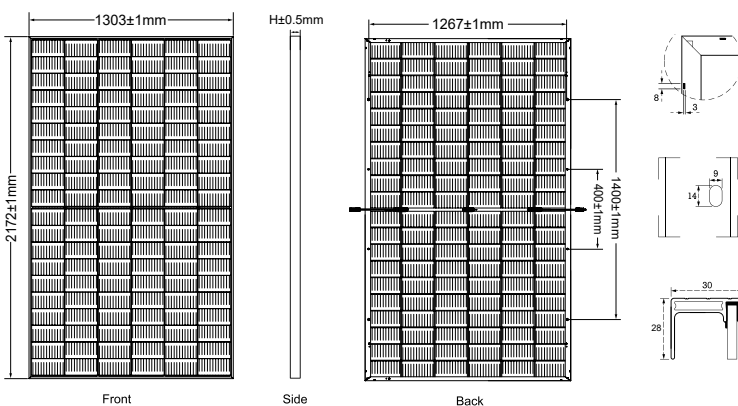
OPERATING PARAMETERS

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

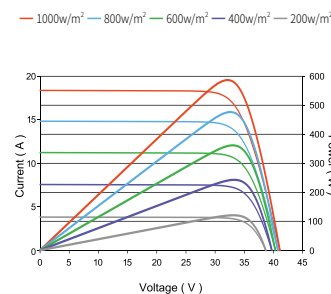
TEMPERFORMANCE RATINGS

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

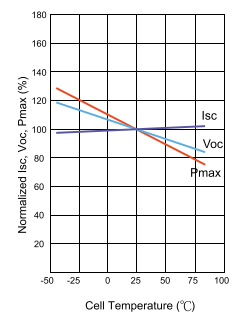
MODULE DIMENSIONS (mm)



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



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



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