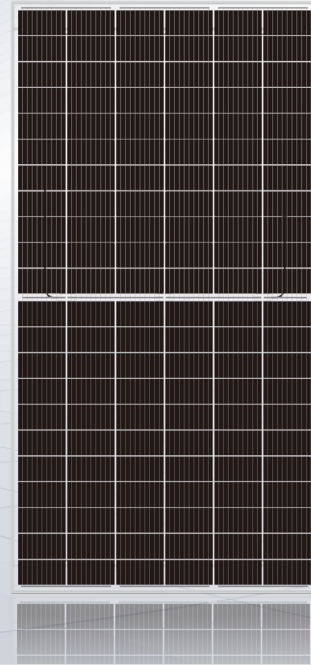




HI-CILO

650-670W

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

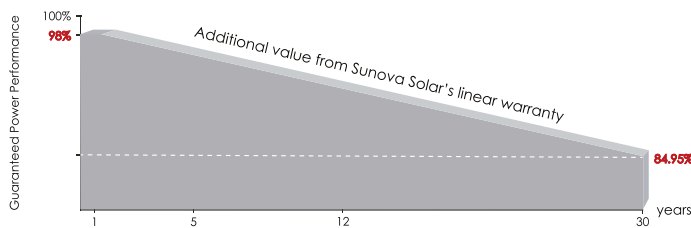


Resistance to salt-spray
corrosion
(IEC61701, certified to TÜV
Rheinland test standard)



100% 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 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



SS-BG670-66MDH-G12 120 cells

ELECTRIC CHARACTERISTICS

Model of modules	SS-BG650-66MDH-G12		SS-BG655-66MDH-G12		SS-BG660-66MDH-G12		SS-BG665-66MDH-G12		SS-BG670-66MDH-G12	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power — P_{mp} (W)	650	491	655	495	660	498	665	502	670	506
Open-circuit voltage — V_{oc} (V)	45.43	42.72	45.65	42.94	45.87	43.12	46.04	43.31	46.26	43.53
Short-circuit current — I_{sc} (A)	18.46	15.02	18.50	15.04	18.55	15.06	18.61	15.08	18.64	15.13
Maximum power voltage — V_{mp} (V)	37.45	34.81	37.67	35.02	37.88	35.17	38.05	35.38	38.24	35.59
Maximum power current — I_{mp} (A)	17.36	14.12	17.39	14.14	17.43	14.16	17.48	14.19	17.53	14.22
Module efficiency — η_m (%)	20.9%		21.1%		21.2%		21.4%		21.6%	

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)	696	701	706	712	717
Open-circuit voltage — V_{oc} (V)	45.43	45.65	45.87	46.04	46.26
Short-circuit current — I_{sc} (A)	19.78	19.80	19.83	19.92	19.95
Maximum power voltage — V_{mp} (V)	37.45	37.67	37.88	38.05	38.24
Maximum power current — I_{mp} (A)	18.59	18.61	18.64	18.72	18.76
Irradiance ratio (rear/front)	10%				

STRUCTURAL CHARACTERISTICS

Module size (L*W*H)	2384 x 1303 x 35 mm
Weight	38.5 kg
Number of cells	132 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 ²
Wire length	300 mm or Customized Length
Connector	MC4 Compatible
Packing Specification	31 pcs/Pallet; 558 pcs/40'HQ

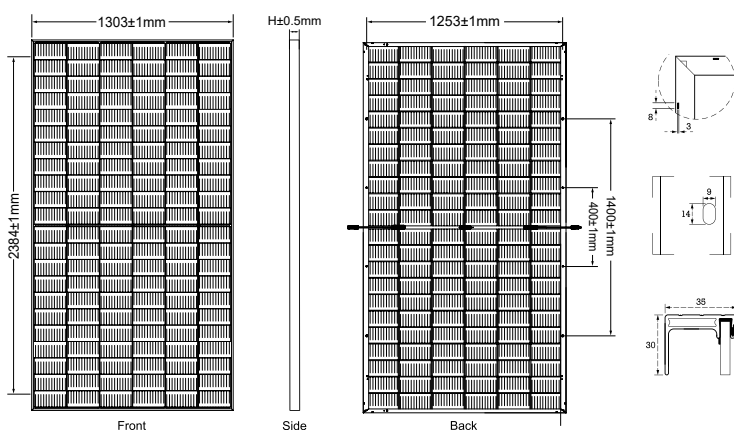
OPERATING PARAMETERS

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

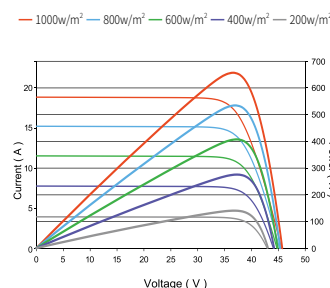
TEMPERFORMANCE RATINGS

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

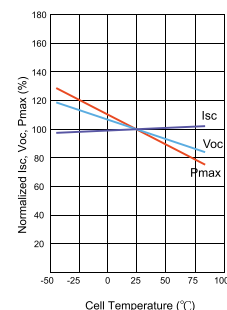
MODULE DIMENSIONS (mm)



Current-Voltage & Power-Voltage Curves (665W)



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



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