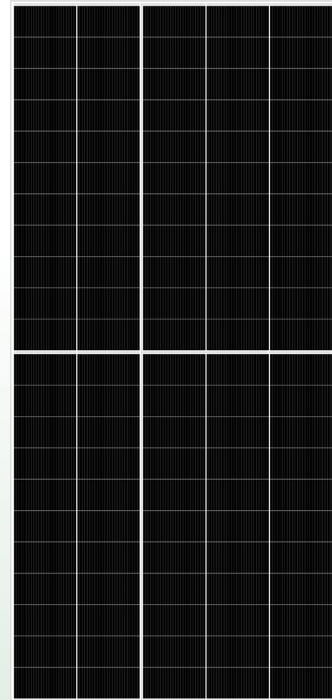


580-605W

N-type Bifacial Module US-BGH55



- Bifacial technology enables additional energy harvesting from rear side (up to 30%)
- 30 years lifespan brings 10-30% additional power generation comparing with conventional P-type module
- N-type solar cell has no LID naturally
LID which can increase power generation
- Excellent low irradiance performance
- Excellent anti-LID & anti-PID performance
- 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



WARRANTY INSURANCE



* Optional performance warranty insurance. Please contact our local sales staff for more information.

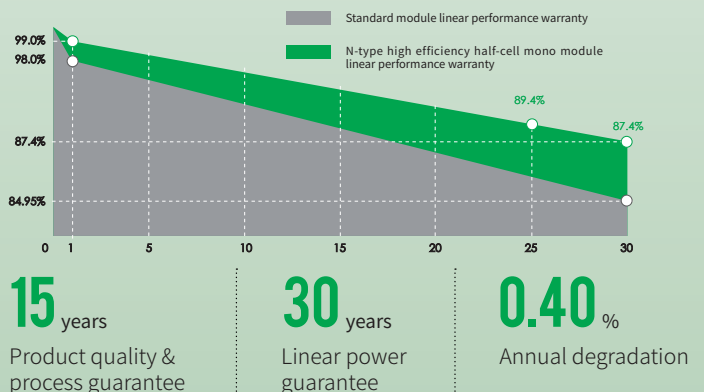
COMPREHENSIVE CERTIFICATES



- ISO 9001: Quality Management System
- ISO 14001: Environmental Management System Standard
- ISO 45001: International Occupational Health and Safety Assessment System Standard
- SA8000: 2014 Social Accountability Management System

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

LINEAR PERFORMANCE WARRANTY



ELECTRICAL CHARACTERISTICS

Model of modules	US-BGH55(580)		US-BGH55(585)		US-BGH55(590)		US-BGH55(595)		US-BGH55(600)		US-BGH55(605)	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power — P_{mp} (W)	580	442.6	585	446.4	590	450.2	595	454.2	600	457.9	605	461.6
Open-circuit voltage — V_{oc} (V)	41.95	39.31	42.03	39.38	42.11	39.46	42.19	39.53	42.27	39.61	42.35	39.68
Short-circuit current — I_{sc} (A)	17.5	14.35	17.6	14.43	17.69	14.51	17.79	14.59	17.88	14.66	17.97	14.74
Maximum power voltage — V_{mp} (V)	34.86	32.59	34.95	32.68	35.04	32.76	35.12	32.84	35.2	32.91	35.28	32.99
Maximum power current — I_{mp} (A)	16.64	13.58	16.74	13.66	16.84	13.74	16.95	13.83	17.05	13.91	17.15	13.99
Module efficiency — η_m (%)	22.2		22.4		22.6		22.8		23.0		23.2	

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

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

Peak power (P_{max}) (W)	638	643	649	654	660	665
Open circuit voltage (V_{oc}) (V)	41.95	42.03	42.11	42.19	42.27	42.35
Short circuit current (I_{sc}) (A)	19.25	19.36	19.46	19.57	19.67	19.77
MPP voltage — V_{mp} (V)	34.86	34.95	35.04	35.12	35.2	35.28
MPP current — I_{mp} (A)	18.3	18.41	18.52	18.65	18.76	18.87

STRUCTURAL CHARACTERISTICS

Module dimensions (L*W*H)	2384 x 1096 x 30 mm
Weight	33 kg
Cell	110 cells, N-type monocrystalline
Superstrate	High Transmission, AR Coated Heat Strengthened Glass
Substrate	Heat Strengthened Glass
Frame	Anodized aluminum alloy
Junction box	IP68, 3 bypass diodes
Output wire	4.0 mm ²
Wire length	300mm/1200mm/customized length
Connector	MC4 Compatible
Packaging specification	35 pcs/pallet; 700 pcs/40'HQ

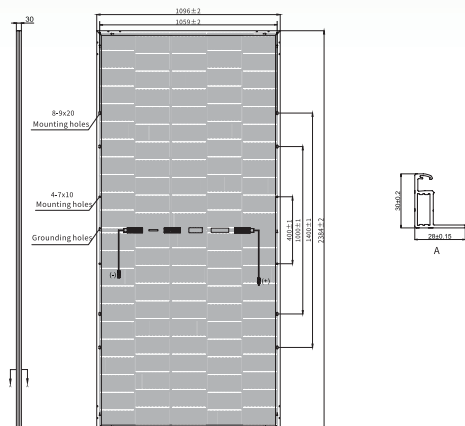
OPERATING PARAMETERS

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 ∞

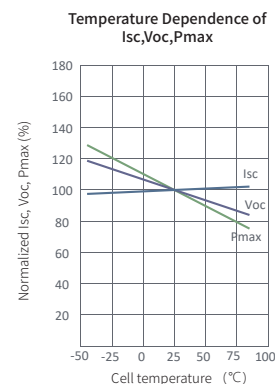
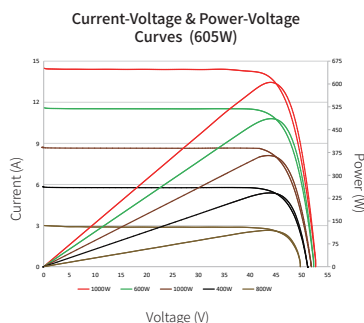
TEMPERATURE PERFORMANCE RATINGS

Temperature coefficient (P_{max})	-0.24 %/°C
Temperature coefficient (V_{oc})	-0.22 %/°C
Temperature coefficient (I_{sc})	+0.047 %/°C
Nominal operating cell temperature	43±2 °C

MODULE DIMENSIONS (MM)



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



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