

G11RA-72P N-type Bifacial Double Glass Module

HSM-BD72-GC640~655

655W

Maximum Power Output

24.2%


Maximum Efficiency



 Higher energy density;
lower operating temperature

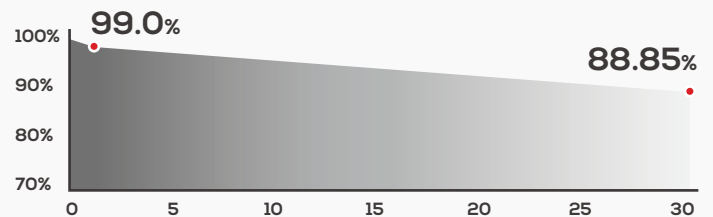
 Lower hotspot temperature;
reduce risk of micro-cracks

 Refined design,
Busbar-free front side

 Comprehensive supply chain integration,
redefining BC standards

Linear Performance Warranty

 15 Years Product Warranty  30 Years Linear Performance Warranty



Comprehensive Products and System Certificates



IEC 61215:2021/ IEC 61730:2023 ISO 9001:2015 ISO 45001:2018 ISO 14001:2015

HSM-BD72-GCxxx, where xxx = Pmax at STC
 Measurement Tolerance: Pmax (W) ±3%; Voc (V) ±3%; Isc (A) ±4%
 STC: Irradiance 1000W/m², Cell Temperature 25°C, AM1.5
 BNPI: 1000W/m² +φ*135W/m²
 BSI: Front 1000W/m², Rear 300W/m²

Electrical Parameters (STC*)

Testing Condition		STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Maximum Power	Pmax (W)	640	699	645	705	650	710	655	716
Open Circuit Voltage	Voc (V)	53.80	53.92	53.90	54.06	54.00	54.15	54.10	54.25
Short Circuit Current	Isc (A)	15.04	16.38	15.12	16.48	15.20	16.56	15.28	16.66
Maximum Power Voltage	Vmp (V)	45.10	45.07	45.20	45.22	45.30	45.28	45.40	45.40
Maximum Power Current	Imp (A)	14.20	15.49	14.27	15.57	14.35	15.66	14.43	15.75
Module Efficiency	(%)	23.7		23.9		24.1		24.2	
Short Circuit Current at BSI	Isc - BSI (A)	17.97							

Temperature Coefficient

Nominal Module Operating Temperature*	43±2°C
Temperature Coefficient of Isc	+0.05%/°C
Temperature Coefficient of Voc	-0.22%/°C
Temperature Coefficient of Pmax	-0.26%/°C

Operating Parameters

Operating Temperature	-40~+70°C
Module [T98] max	70°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
Bifaciality (φVoc/φIsc/φPmax)	98±2% / 70±5% / 70±5%

Mechanical Data

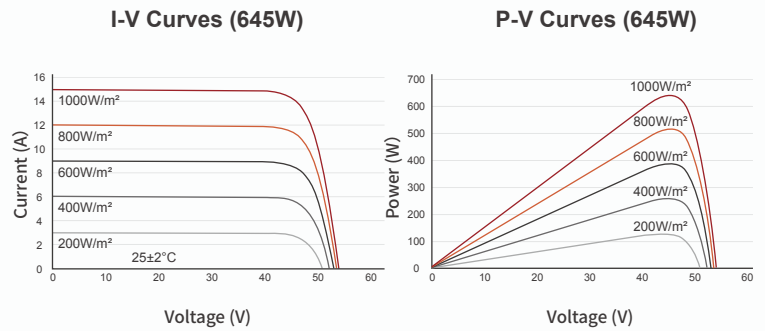
* Please refer to installation manual for details

No. of Cells	144pcs (6×24)
Dimension	2382×1134×30 mm
Weight	32.3kg±3%
Front Glass	2.0mm, Heat Strengthened, AR coating Glass
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
J-Box	IP68, three diodes
Cables	4.0mm ² , +400mm, -200mm (can be customized)
Maximum Static Load	Front: +5400Pa/Back: -2400Pa*
Fire Rating	IEC Class C
Connectors:	Staubli - PV-KST4-EVO2A/xy_UR; PV-KBT4-EVO2A/xy_UR

Packaging Configuration

Modules per Pallet	36pcs
Modules per 40'HQ Container	720pcs
Pallets per 40'HQ Container	20pcs

Curve Graph



Engineering Drawing

[Unit: mm]

