

G10_{LD}-54P N-type Bifacial Double Glass Module

HSM-BD54-GA455~480

480W

Maximum Power Output

24.1%

Maximum Efficiency



Blue to gNEP



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

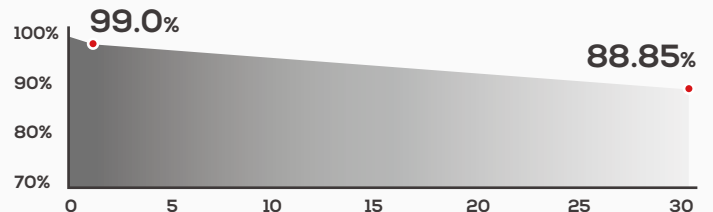
Linear Performance Warranty



15 Years
Product Warranty



30 Years Linear
Performance Warranty



Comprehensive Products and System Certificates



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

Electrical Parameters (STC*)

* STC: Irradiance 1000W/m², Cell Temperature 25°C, AM1.5, Measuring Tolerance: ±2%

Maximum Power	P _{max} (W)	455	460	465	470	475	480
Open Circuit Voltage	V _{oc} (V)	41.00	41.06	41.12	41.18	41.24	41.30
Short Circuit Current	I _{sc} (A)	14.22	14.25	14.29	14.32	14.35	14.38
Maximum Power Voltage	V _{mp} (V)	34.56	34.62	34.68	34.74	34.80	34.86
Maximum Power Current	I _{mp} (A)	13.17	13.29	13.41	13.54	13.66	13.79
Module Efficiency	(%)	22.8	23.1	23.3	23.6	23.8	24.1

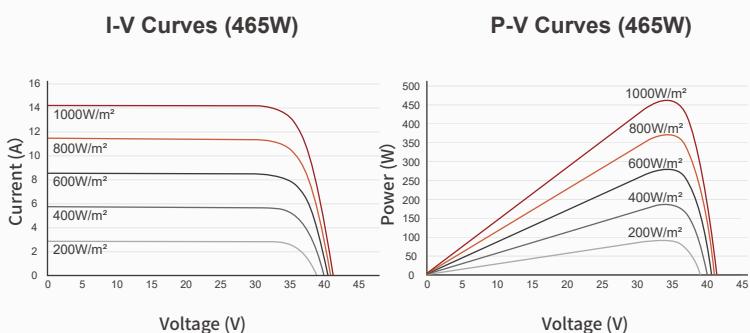
Temperature Coefficient

Nominal Module Operating Temperature*	43 ± 2°C
Temperature Coefficient of I _{sc}	+0.05%/°C
Temperature Coefficient of V _{oc}	-0.22%/°C
Temperature Coefficient of P _{max}	-0.26%/°C

Operating Parameters

Operating Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	25A
Power Bifaciality	70 ± 5%

Curve Graph



Mechanical Data

* Please refer to installation manual for details

No. of Cells	108pcs (6 × 18)
Dimension	1757 × 1134 × 30 mm
Weight	24.2kg ± 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 , +1200mm, -1200mm (can be customized)
Maximum Static Load	Front: 5400Pa/Back: 2400Pa*
Fire Rating	IEC Class C

Packaging Configuration

Modules per Pallet	37pcs
Modules per 40'HQ Container	962pcs
Pallets per 40'HQ Container	26pcs

Engineering Drawing

[Unit: mm]

