GEM G12R/108D

High Efficiency

Module efficiency up to 23.2% based on N-Type wafer and TOPCon technology

Excellent Energy Yield

More power output in field operation due to better thermal behaviors, weak-light performance and bifaciality

Anti-degradation

Unsusceptible to LID, LeTID and less annual degradation due to special charateristics of N-Type

Quality Guarantee

High module quality ensures long-term reliability

15-Year
Product Warranty

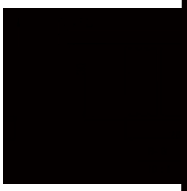
30-Year

Cell Type	N-Type TOPCon
No. of cells	108 (6×18)
Output Cables	TüV 1×4mm ²
	(+)300mm,(-)200mm in length or customized length
Glass	Front: 2.0mm, AR-coating, semi-tempered
	Rear: 2.0mm, semi-tempered
Frame	Anodized aluminum alloy frame
Weight	26.3kg (57.98lbs)
Dimension	1961×1134×30mm
Packaging	37 pcs per pallet
	185 pcs per 20' GP, 888 pcs per 40' HC
Protection Class	Class II
Fire Rating	IEC Class C

Engineering Drawings





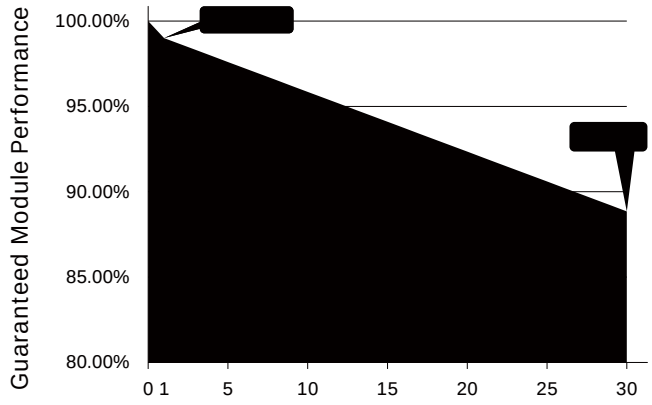




* Length:±2mm Width:±2mm Height:±1mm Row 2mm

Module Type	GK-4-54HTBD-490M		GK-4-54HTBD-495M		GK-4-54HTBD-500M		GK-4-54HTBD-505M		GK-4-54HTBD-		GK-4-54HTBD-515M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	N	STC	NOCT
Maximum Power (Pmax/W)	490	371	495	375	500	379	505	383	510		515	390
Open-circuit Voltage (Voc/V	39.61	36.84	39.81	37.02	40.02	37.22	40.22	37.40	40.42	3	40.62	37.78
Short-circuit Current (Isc/A)	15.74	12.91	15.81	12.96	15.88	13.02	15.95	13.08	16.02		16.08	13.19
Maximum Power Voltage (Vmp/V)	32.65	30.30	32.85	30.48	33.05	30.67	33.25	30.86	33.45		33.64	31.22
Maximum Power Current (Imp/A)	15.01	12.25	15.07	12.30	15.13	12.35	15.19	12.40	15.25		15.31	12.49
Module Efficiency (%)												

Note: 1 STC: Irradiance 1000W/M², Cell Temperature25 , AM=1.5 2 NOCT: Irradiance 800W/M², Ambient Temperature 20 AM=1.5, Wind Speed 1M/S



Operating Temperature	70
Power Tolerance	
Maximum System Voltage	
NOCT	
Maximum Series Fuse Rating	
Bifacial Factor	
Junction Box	

Temperature coefficient of Isc	+ 0.045%/
Temperature coefficient of Voc	- 0.25%/
Temperature coefficient of Pmax	- 0.29%/

Front Side Maximum Static Loadin	
Rear Side Maximum Static Loadin	
Hailstone Test	

Gokin