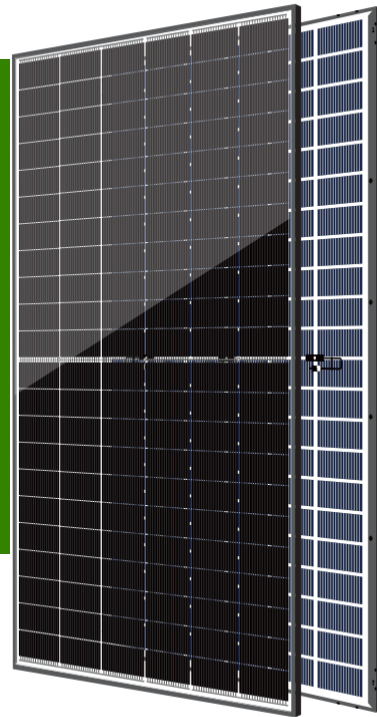


HGG ENERGY NEW !

HGT-210R-66-635~650W

MONO-CRYSTALLINE BIFACIAL HALF-CUT MODULE

Maximum Power	Maximum Efficiency	Power Tolerance
650W	24.1%	0~+3%



CELL TYPE

N-Type/MBB/Monocrystalline/Half-Cell



HIGH EFFICIENCY, HIGH GENERATION

Based on 210R wafer and TOPCon cell technology, the power generation efficiency has greatly improved with lower degradation and better temperature coefficient.



EXCELLENT ANTI-PID PERFORMANCE

Cell manufacturing technology optimization and materials control will help reduce PID degradation rate to the minimum.



SUPPORT 1500V SYSTEM

Increase the number of system modules in series, reduce overall cost of terminal power plant.

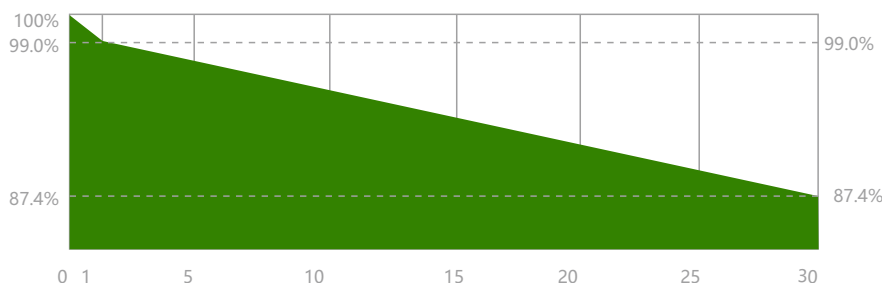


STRONG MECHANICAL LOAD CAPACITY

Withstand snow pressure up to 5400Pa on the front face and wind pressure up to 2400Pa on the rear face.

12 YEARS Product Warranty

30 YEARS Power Output Warranty



IEC 61215 / IEC 61730
IEC 62804: Anti-PID Test

MBB MONO-CRYSTALLINE BIFACIAL HALF-CUT MODULE

HGT-210R-72-635~650

MODEL NUMBER	HGT Power range - 635~650 SHT			
ELECTRICAL PARAMETERS (STC)				
Max Power (Pmax/W)	635	640	645	650
Max Power Voltage(Vmp/V)	41.10	41.29	41.48	41.67
Max Power Current (Imp/A)	15.45	15.50	15.55	15.60
Open Circuit Voltage(Voc/V)	49.69	49.88	50.07	50.26
Short Circuit Current (Isc/A)	16.25	16.30	16.35	16.40
Module Efficiency (%)	23.5	23.7	23.9	24.1

STC(Standard Test Condition): AM1.5, Irradiance 1000W/m, Cell Temperature 25°C

ELECTRICAL PARAMETERS (NMOT)				
Max Power (Pmax/W)	481	485	489	493
Max Power Voltage(Vmp/V)	39.25	39.43	39.61	39.79
Max Power Current (Imp/A)	12.25	12.30	12.35	12.39
Open Circuit Voltage(Voc/V)	47.45	47.64	47.82	48.00
Short Circuit Current (Isc/A)	13.11	13.15	13.19	13.23

NMOT(Nominal Module Operating Temperature): Irradiance 800W/m, Ambient Temperature 20°C, Wind Speed 1m/s

BIFACIAL GENERATION DATA e.g. 635w		Bifacial generation varies relying on albedo, height from ground, interval etc. Below data are for reference only.		
Power Gain	5%	15%	25%	
Maximum Power (W)	666.75	730.25	793.75	
Module Efficiency (%)	24.68	27.03	29.38	
Max Power Voltage(Vmp/V)	43.90	43.90	43.90	
Max Power Current(Imp/A)	15.18	16.63	18.08	
Open Circuit Voltage(Voc/V)	53.41	53.41	53.41	
Short Circuit Current(Isc/A)	15.33	16.32	18.11	

TEMPERATURE CHARACTERISTICS	
Cell Operating Temperature	45±2°C
Temperature Coefficient of Isc	0.047%/°C
Temperature Coefficient of Voc	-0.240%/°C
Temperature Coefficient of Pmax	-0.280%/°C

MECHANICAL PARAMETERS			
Cell Type	N Type/MBB/Monocrystalline/Half-Cell		
Number of Cells	132		
Weight	32.5±1.0kg		
Dimension	2382×1134×30mm		
Front Glass	Semi-tempered embossed coated glass	Frame	Anodized Aluminum
Encapsulating Material	POE + POE/EVA	Junction Box	Protection Degree IP68
Back Glass	Semi-tempered embossed/high-reflection	Cable	4.0 mm ² / + 300mm, - 200mm; or customized length

OPERATING CONDITIONS			
Maximum System Voltage	1500V	Max Front Face Static Load (Snow etc)	5400Pa
Operating Temperature	-40°C~+85°C	Max Rear Face Static Load (Wind etc)	2400Pa
Maximum Series Fuse Rating	30A	Installation should strictly obey the installation manual of Solargiga Energy	

PACKING INFORMATION	
36pcs/pallet	720pcs/40'HQ

*Power test uncertainty +/-3%

