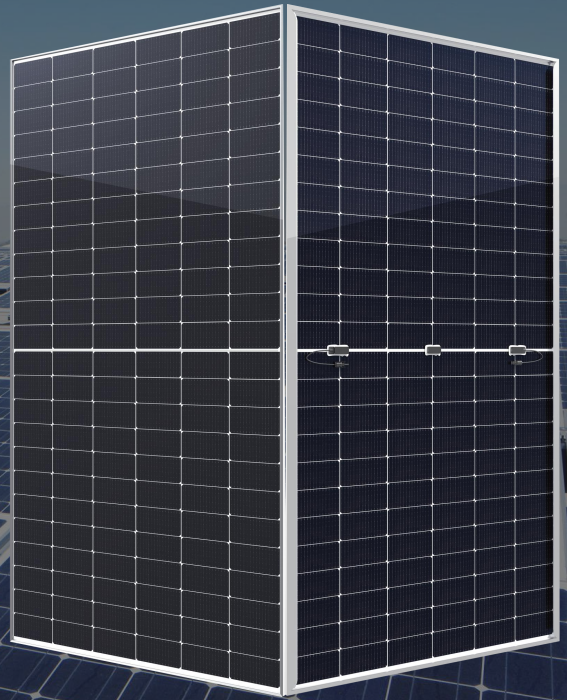


N-Type

210 Mono-Bifacial Module
GPG12T66-720HC

690W-720W



Maximum output power	Maximum efficiency	Power tolerance
720W	23.18%	0~+3%

▶ Key Features



SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



Duplex power generation

The power gain on both sides increases with the light received on the back, up to 25%.



Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

▶ Quality System

IEC61215(2016), IEC61730(2016)
ISO9001:2015:Quality Management System
ISO14001:2015:Environment Management System
ISO45001:2018:Occupational Health and Safety Management Systems

▶ Product Certifications

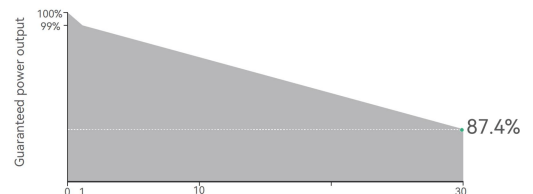


▶ Linear performance warranty

12 Year Product Warranty

30 Year Linear Warranty

0.4% Annual Degradation Over **30** Years



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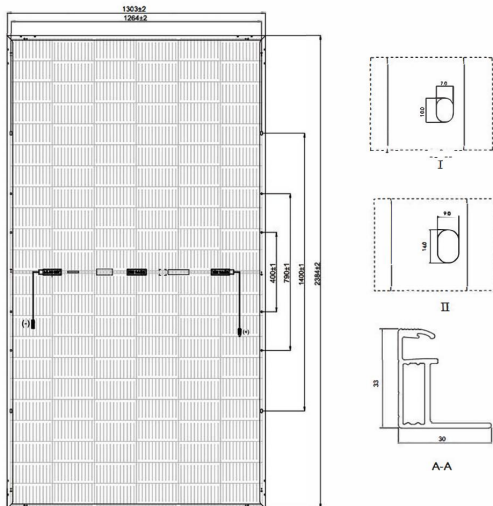
Add: No..55 Shangxiang Road, Huaqiao Corporation Head Quarter Centre, Kunshan City, Suzhou City

Tell: 0512-36684019

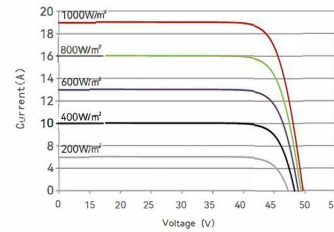
Web: <https://pretapower.com>

Mail: info@pretapower.com

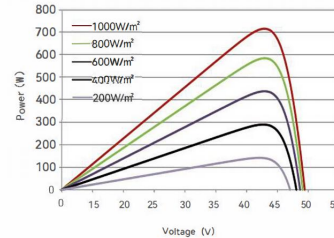
Engineering Drawings



Electical Performance (580W)



I-V curve



P-V curve

Electrical Parameters (STC*)

Maximum Power(W)	690	695	700	705	710	715	720
Maximum Power Voltage(V)	40.1	40.3	40.5	40.7	40.9	41.1	41.3
Maximum Power Current(A)	17.21	17.25	17.28	17.32	17.36	17.4	17.43
Open Circuit Voltage(V)	48.2	48.4	48.6	48.8	49	49.2	49.4
Short Circuit Current(A)	18.24	18.28	18.32	18.36	18.4	18.44	18.49
Module Efficiency(%)	22.21	22.37	22.53	22.7	22.86	23.02	23.18

Power tolerance 0~+3%
 * Irradiance 1000W/m², Module Temperature 25°C, Air Mass 1.5

Mechanical Parameters

Cell Type	210×105mm N-Type
Number of Cells	132cells (2x66)
Dimensions	2384×1303×33mm
Weight	37KG
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Silver, anodized aluminium alloy
J-Box	IP68 Rated,MC4 Compatible
Cable	4 mm ² ,300 mm standard

Electrical Parameters (NOCT*)

Maximum Power(W)	514.1	517.8	521.5	525.2	529	532.7	536.4
Maximum Power Voltage(V)	37.11	37.3	37.48	37.67	37.85	38.04	38.22
Maximum Power Current(A)	13.85	13.88	13.91	13.94	13.97	14	14.03
Open Circuit Voltage(V)	45.18	45.37	45.56	45.74	45.93	46.12	46.31
Short Circuit Current(A)	14.68	14.72	14.75	14.78	14.81	14.84	14.88

* Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

Temperature Coefficient

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Isc	0.045%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Pmax	-0.29%/°C

Backside Power Gain (For 710W)

Backside Power Gain(%)	10%	15%	20%	25%	30%
Maximum Power(Pmax/W)	781	816.5	852	887.5	923
Open Circuit Voltage(Voc/V)	49.5	49.5	49.5	49.7	49.7
Short Circuit Current(Isc/A)	20.24	21.16	22.08	23.0	23.92
Maximum Power Voltage(Vmp/V)	41.4	41.4	41.4	41.6	41.6
Maximum Power Current(Imp/A)	18.86	19.72	20.58	21.33	22.19

Application Parameters

Operational Temperature(°C)	-40°C~+85°C
Maximum System Voltage	1500V DC
Max Series Fuse Rating	35A
Wind/ Snow Load	2400Pa/5400Pa
Packaging Configuration	33PCS/PLT,594PCS/40HQ

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