

G12R-66P

N-type Bifacial

Double Glass Module

HSM-ND66-GR605~630

630W

Maximum Power Output

23.3%

Maximum Efficiency



High Energy Yield

- Lower temperature coefficient (Pmax): -0.29%/°C
- Up to 80% power bifaciality

Industry-leading G10 Wafer

- <1% degradation in the first year
- Smaller wafer chamfer, larger light receiving area

Superior Customer Value

- Optimized dimension design for all scenarios

Long-term Reliability

- Harsh environment resistance
- Damage-free laser cutting, lower micro-crack risk
- Mechanical load: Front 5400 Pa, Back 2400 Pa

Comprehensive Products and System Certificates



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

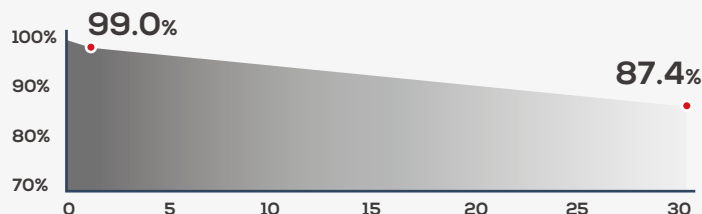
Linear Performance Warranty



15 Years
Product Warranty



30 Years Linear
Performance Warranty



G12R-66P N-type Bifacial Double Glass Module

HSM-ND66-GR605~630

630W

Maximum Power

23.3%

Maximum Efficiency

0~+5W

Power Tolerance

Electrical Parameters (STC*)

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

Maximum Power	P _{max} (W)	605	610	615	620	625	630
Open Circuit Voltage	V _{oc} (V)	47.89	48.09	48.29	48.49	48.69	48.89
Short Circuit Current	I _{sc} (A)	16.10	16.15	16.20	16.23	16.26	16.28
Maximum Power Voltage	V _{mp} (V)	39.59	39.76	39.95	40.20	40.44	40.69
Maximum Power Current	I _{mp} (A)	15.29	15.35	15.40	15.43	15.46	15.49
Module Efficiency	(%)	22.4	22.6	22.8	23.0	23.1	23.3

Electrical Characteristics with 10% Bifacial Gain*

* The additional gain from the back side depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

Maximum Power	P _{max} (W)	666	671	677	682	688	693
Open Circuit Voltage	V _{oc} (V)	47.89	48.09	48.29	48.49	48.69	48.89
Short Circuit Current	I _{sc} (A)	17.71	17.77	17.82	17.85	17.89	17.91
Maximum Power Voltage	V _{mp} (V)	39.59	39.76	39.95	40.20	40.44	40.69
Maximum Power Current	I _{mp} (A)	16.82	16.89	16.94	16.97	17.01	17.04

Mechanical Data

* Please refer to installation manual for details

No. of Cells	132pcs (6×22)
Dimension	2382×1134×30 mm
Weight	33.0kg
Front Glass	2.0mm High Transmission, Heat Strengthened, AR coating Glass
Back Glass	2.0mm High Transmission, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
J-Box	IP68
Cables	4.0mm ² , +400mm, -200mm/±1400mm (can be customized)
Diodes	3
Maximum Static Load	Front: 5400Pa/Back: 2400Pa*

Temperature Coefficient

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

Nominal Module Operating Temperature*	43±2°C	Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of I _{sc}	+0.045%/°C	Temperature Coefficient of P _{max}	-0.29%/°C

Operating Parameters

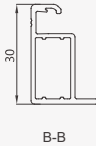
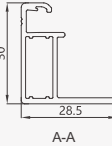
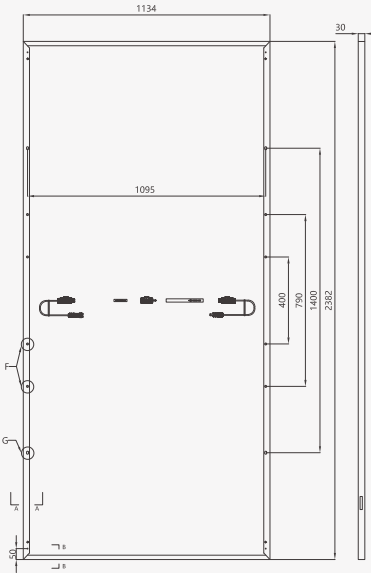
Operating Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
Power Bifaciality	80±5%

Packaging Configuration

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

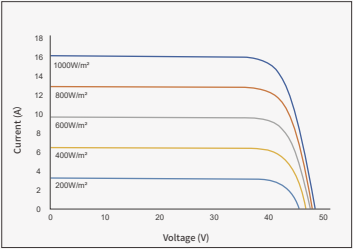
Engineering Drawing

[Unit: mm]

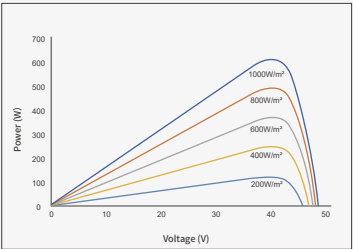


Curve Graph

I-V Curves (615W)



P-V Curves (615W)



Head office: No. 20 Wenzhuang Road, Economic Development Zone, Yixing City, Jiangsu Province | PRC
Marketing center: 21F, Building 1, No.99 Si 'an Street, Industrial Park, Suzhou City, Jiangsu Province | PRC
Tel: 86-0510-87121106 E-mail: modules-contact@tzeco.com Website: www.tzeco.com



Datasheets