

G12R-66P

N-type Bifacial Double Glass Module

HSM-ND66-GR600~625-Y

625W

Maximum Power Output

23.1%

Maximum Efficiency



Industry mainstream G12R design
Higher container utilization rate
Module power 600W+

Dual-glass bifacial design ,
enhanced rear side power gain
for higher system energy yield

Medium-format design suitable for
distributed and utility-scale applications

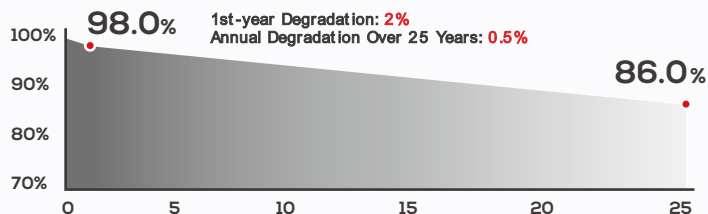
Linear Performance Warranty



12 Years
Product Warranty



25 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* & BNPI*)

* STC: Irradiance 1000W/m², Cell Temperature 25°C, AM1.5, Measuring Tolerance: ±3%
* BNPI: Front Irradiance 1000W/m², Back Irradiance 135W/m², Ambient Temperature 25°C, AM1.5, Measuring Tolerance: ±3%

Testing Condition		STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Maximum Power	P _{max} (W)	600	663	605	668	610	674	615	679	620	685	625	690
Open Circuit Voltage	V _{oc} (V)	48.06	48.23	48.28	48.43	48.50	48.66	48.72	48.86	48.94	49.11	49.16	49.30
Short Circuit Current	I _{sc} (A)	15.85	17.51	15.90	17.55	15.95	17.61	16.00	17.66	16.05	17.73	16.10	17.77
Maximum Power Voltage	V _{mp} (V)	40.19	40.21	40.39	40.39	40.59	40.61	40.79	40.79	40.98	41.00	41.18	41.20
Maximum Power Current	I _{mp} (A)	14.93	16.49	14.98	16.54	15.03	16.60	15.08	16.65	15.13	16.71	15.18	16.75
Module Efficiency	(%)	22.2		22.4		22.6		22.8		23.0		23.1	

Electrical Characteristics with Different Bifacial Gain*

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

Bifacial Gain		5%	10%	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%
Maximum Power	P _{max} (W)	630	660	635	666	641	671	646	677	651	682	656	688
Open Circuit Voltage	V _{oc} (V)	48.06	48.06	48.28	48.28	48.50	48.50	48.72	48.72	48.94	48.94	49.16	49.16
Short Circuit Current	I _{sc} (A)	16.64	17.44	16.70	17.49	16.75	17.55	16.80	17.60	16.85	17.66	16.91	17.71
Maximum Power Voltage	V _{mp} (V)	40.19	40.19	40.39	40.39	40.59	40.59	40.79	40.79	40.98	40.98	41.18	41.18
Maximum Power Current	I _{mp} (A)	15.68	16.42	15.73	16.48	15.78	16.53	15.83	16.59	15.89	16.64	15.94	16.70

Temperature Coefficient

Nominal Module Operating Temperature*	43±2°C
Temperature Coefficient of I _{sc}	+0.045%/°C
Temperature Coefficient of V _{oc}	-0.24%/°C
Temperature Coefficient of P _{max}	-0.28%/°C

Operating Parameters

Operating Temperature	-40~+70°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
Power Bifaciality	80±5%
Safety Protection Rating	Class II
Fire Rating	Class C

Mechanical Data

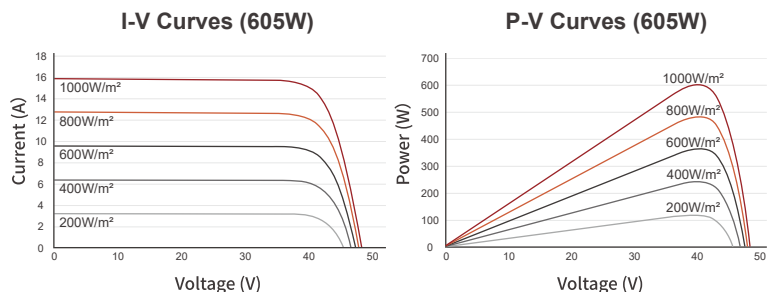
* Please refer to installation manual for details

No. of Cells	132pcs (6×22)
Dimension	2382×1134×30 mm
Weight	32.6kg±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 +300mm -200mm (can be customized)
Maximum Static Load	Front: 5400Pa/Back: 2400Pa*

Packaging Configuration

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

Curve Graph



Engineering Drawing

[Unit: mm]

