

G12-66P

N-type Bifacial Double Glass Module

HSM-ND66-GK700~725 (IEC1500V)

725W

Maximum Power Output

23.3%

Maximum Efficiency



Superior Customer Value

- 210^{mm} wafer generates 720W+ power output
- Low-voltage design optimizes BOS cost
- Optimized for diverse installation needs



High Energy Yield

- Consistent high yield in varying conditions
- Enhanced thermal resistance and bifacial power generation



Long-term Reliability

- Advanced weather-resistant encapsulation
- Aluminium alloy frame and heat strengthened glass
- Resistant to harsh environmental conditions

Comprehensive Products and System Certificates



IEC 61215 / IEC 61730 ISO 9001:2015 ISO 45001:2018 ISO 14001:2015
ISO 9001: 2015 / Quality management system
ISO 45001: 2018 / International standards for occupational health & safety
ISO 14001: 2015 / Standards for environmental management system

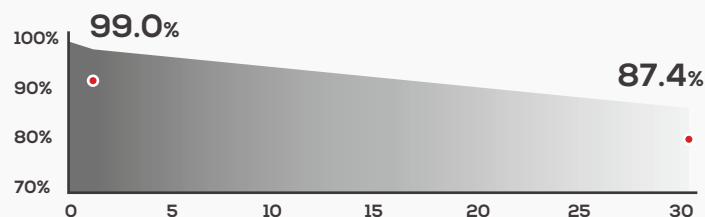
Linear Performance Warranty



15 Years
Product Warranty



30 Years Linear
Performance Warranty



* Please refer to product warranty for details

** Power performance warranty terms only apply to the front-side (STC) performance

HSM-ND66-GKxxx, where xxx = Pmax at STC
Measurement Tolerance: Pmax (W) $\pm 3\%$; Voc (V) $\pm 3\%$; Isc (A) $\pm 4\%$
STC: Irradiance 1000W/m², Cell Temperature 25°C, AM1.5
BNPI: 1000W/m² + $\varphi \times 135\text{W/m}^2$

Electrical Parameters (STC* & BNPI*)

Testing Condition		STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Maximum Power	Pmax (W)	700	773	705	779	710	784	715	790	720	795	725	801
Open Circuit Voltage	Voc (V)	48.26	48.41	48.48	48.64	48.70	48.85	48.92	49.08	49.14	49.29	49.36	49.52
Short Circuit Current	Isc (A)	18.40	20.31	18.44	20.36	18.48	20.40	18.52	20.45	18.56	20.49	18.60	20.54
Maximum Power Voltage	Vmp (V)	40.31	40.31	40.50	40.51	40.69	40.69	40.89	40.92	41.08	41.09	41.27	41.29
Maximum Power Current	Imp (A)	17.37	19.18	17.41	19.23	17.45	19.27	17.49	19.31	17.53	19.35	17.57	19.40
Short circuit current at BSI	Isc (A)	22.65		22.70		22.75		22.80		22.85		22.90	
Module Efficiency	(%)	22.5		22.7		22.9		23.0		23.2		23.3	

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	Pmax (W)	735	770	740	776	746	781	751	787	756	792	761	798
Open Circuit Voltage	Voc (V)	48.26	48.26	48.48	48.48	48.70	48.70	48.92	48.92	49.14	49.14	49.36	49.36
Short Circuit Current	Isc (A)	19.32	20.24	19.36	20.28	19.40	20.33	19.45	20.37	19.49	20.42	19.53	20.46
Maximum Power Voltage	Vmp (V)	40.31	40.31	40.50	40.50	40.69	40.69	40.89	40.89	41.08	41.08	41.27	41.27
Maximum Power Current	Imp (A)	18.24	19.11	18.28	19.15	18.32	19.20	18.36	19.24	18.41	19.28	18.45	19.33

Temperature Coefficient

Nominal Module Operating Temperature*	43 $\pm$ 2°C
Temperature Coefficient of Isc	+0.045%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Pmax	-0.28%/°C

Operating Parameters

Operating Temperature	-40~+70°C
Module [T98] max	70°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	35A
Bifaciality ($\varphi\text{Voc}/\varphi\text{Isc}/\varphi\text{Pmax}$)	98 $\pm$ 2% / 80 $\pm$ 5% / 80 $\pm$ 5%

Mechanical Data

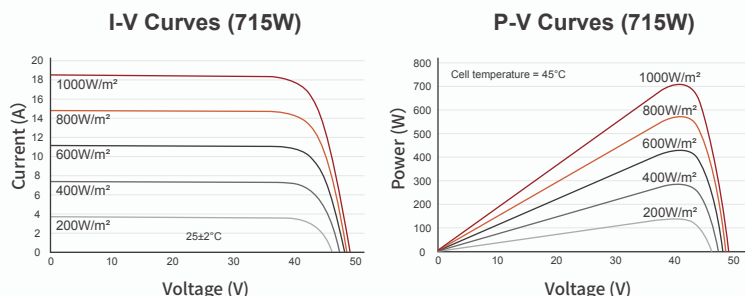
* Please refer to installation manual for details

No. of Cells	132pcs (6 $\times$ 22)
Dimension	2384 $\times$ 1303 $\times$ 33mm
Weight	38.2kg $\pm$ 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*
Fire Rating	IEC Class C
Connectors	Staubli Electrical Connectors AG, PV-KST4-EVO 2/xy_UR; PV-KBT4-EVO 2/xy_UR

Packaging Configuration

Modules per Pallet	33pcs
Modules per 40'HQ Container	594pcs
Pallets per 40'HQ Container	18pcs

Curve Graph



Engineering Drawing

[Unit: mm]

