

Crystal Max **N12**

Mono-Crystalline
685-710W

0~+5W POWER TOLERANCE

- High efficiency N - type double glass solar module
- Stronger properties, PID resistance, reduced hot spot loss
- Higher module power, lower BOS costs
- Harsh environmental adaptation
- Bifacial module, more power generation

15 years material warranty **15**

30 years power linear warranty **30**

**A sound quality management
system and product certification**

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality management system

ISO14001:2015: Environmental management system

ISO45001:2018: Occupational health and safety management system



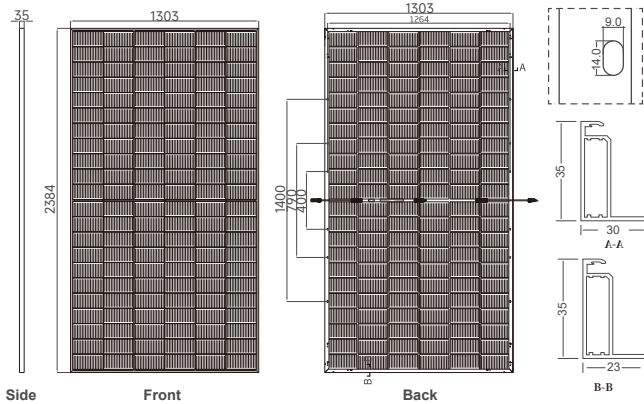
22.9%
MAXIMUM CONVERSION

0~+5W
POWER TOLERANCE

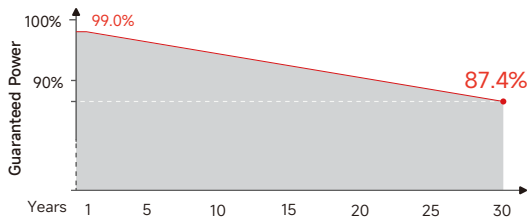
0.4%
0.4% PER YEAR OVER 2-30 YEARS

Half-Cut Module
LOWER TEMPERATURE COEFFICIENT

Mechanical Diagrams



Length: ±2mm Width: ±2mm Thickness: ±1mm Hole pitch: ±2mm



Packing Standard

Container capacity(40HQ)

Pallet size (mm) : 31pcs/pallet, 18pallets/ctns, 558pcs/ctn

Electrical Parameters

Module Type	QN-685HG		QN-690HG		QN-695HG		QN-700HG		QN-705HG		QN-710HG	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	685	521	690	526	695	530	700	534	705	540	710	543
Maximum Power Voltage (Vmp)	39.84	37.37	40.07	37.68	40.29	37.80	40.50	38.01	40.68	38.33	40.90	38.46
Maximum Power Current (Imp)	17.19	13.94	17.23	13.95	17.25	14.02	17.29	14.05	17.33	14.08	17.36	14.12
Open Circuit Voltage (Voc)	47.71	45.22	47.92	45.41	48.31	45.82	48.61	46.01	48.81	46.29	49.01	46.51
Short Circuit Current (Isc)	18.21	14.67	18.25	14.71	18.28	14.73	18.32	14.76	18.36	14.80	18.40	14.83
Module Efficiency -ηm (%)	22.1		22.2		22.4		22.5		22.7		22.9	

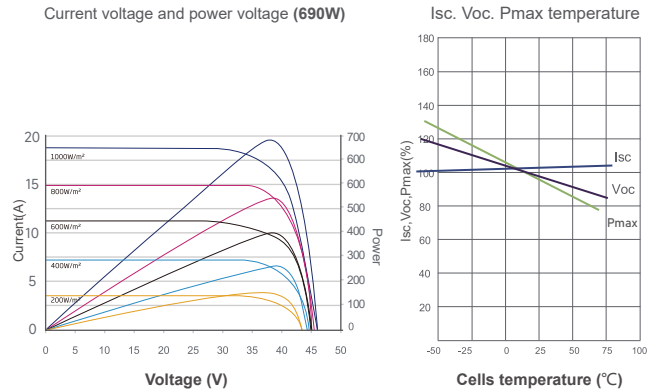
Load Capacity

Max Load Front	5400Pa
Max Load Back	2400Pa
Through Hail Testing	25mm Diameter, Impact Speed 23m/s

Temperature Coefficient (STC Test)

Temperature Coefficient of Isc	+0.04%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Pmax	-0.29%/°C

Curve Figure



Specification

Cell Type	Mono Crystalline
No. of Cells	132[2x(6x11)] pcs
Dimension	2384x1303x35mm
Weight	38.3kg
Front Glass	2.0mm
Back Glass	2.0mm
Junction Box	IP68
Cable Length	300mm,1200mm(can be customized)

Operation Parameters

Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC (IEC)
Maximum Series Fuse Rating	35A
Power Tolerance	0~+5W
Nominal Operating Cell Temperature (NOCT)	42±2°C
Safety Class	class II

STC: Irradiance:1000W/m² | Battery temperature: 25°C | Atmospheric=1.5

NOCT: Irradiance:800W/m² | Ambient temperature: 20°C | Atmospheric=1.5 | Wind speed 1m/s

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