

Qrystal **N10**

Mono-Crystalline
485~505W

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**

108

HALF-CUT
CELLS

182
x210
mm

RECTANGULAR
CELLS

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

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality management system

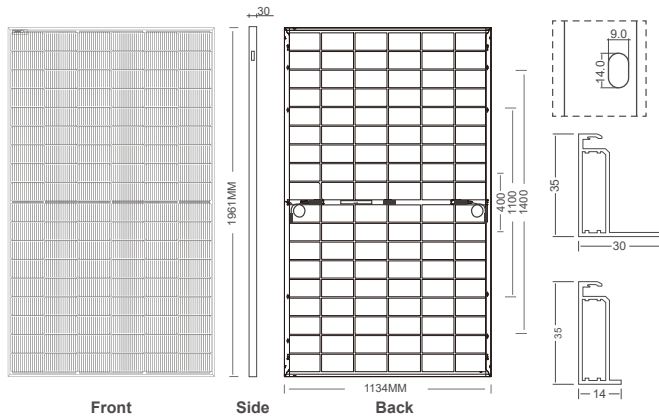
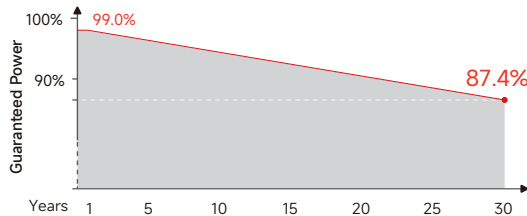
ISO14001:2015: Environmental management system

ISO45001:2018: Occupational health and safety management system



22.7%
MAXIMUM CONVERSION0~+5W
POWER TOLERANCE0.4%
0.4% PER YEAR OVER 30 YEARSHalf-Cut Module
LOWER TEMPERATURE COEFFICIENT

Mechanical Diagrams

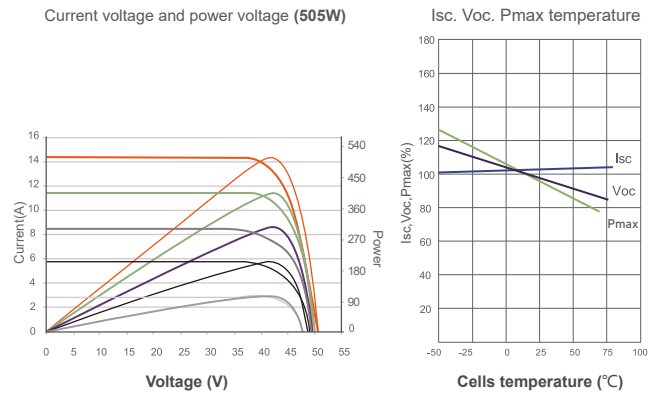
Length: ± 2 mm Width: ± 2 mm Thickness: ± 1 mm Hole pitch: ± 2 mm

Packing Standard

Container capacity(40HQ)

Pallet size (mm) : 36pcs/pallet, 24pallets/ctns, 864pcs/ctn

Curve Figure



Specification

Cell Type	Mono Crystalline
No. of Cells	108 [2x(6x9)] pcs
Dimension	1961x1134x30mm
Weight	27.5kg
Front Glass	2.0mm
Back Glass	2.0mm
Junction Box	IP68
Cable Length	300mm,1200mm(can be customized)

Electrical Parameters

Module Type	QN-485HT-2		QN-490HT-2		QN-495HT-2		QN-500HT-2		QN-505HT-2	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	485	367	490	370	495	374	500	378	505	382
Maximum Power Voltage (Vmp)	39.01	37.06	39.26	37.29	39.51	37.53	39.77	37.78	40.02	38.02
Maximum Power Current (Imp)	15.74	12.59	15.80	12.64	15.86	12.69	15.91	12.73	15.97	12.78
Open Circuit Voltage (Voc)	32.38	30.60	32.60	30.81	32.82	31.01	33.05	31.23	33.27	31.44
Short Circuit Current (Isc)	14.98	11.98	15.03	12.02	15.08	12.06	15.13	12.10	15.18	12.14
Module Efficiency - η_m (%)	21.8		22.0		22.3		22.5		22.7	

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

Operation Parameters

Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC (IEC)
Maximum Series Fuse Rating	30A
Power Tolerance	0~+5W
Nominal Operating Cell Temperature (NOCT)	42 $\pm$ 2°C
Safety Class	class II
Fire Safety Class According	Class C

STC: Irradiance:1000W/m² | Battery temperature: 25°C | Atmospheric=1.5NOCT: Irradiance:800W/m² | Ambien temperature: 20°C | Atmospheric=1.5 | Wind speed 1m/sD5 Greenland Window Building
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