

Q-SUN solar

Mercury Series

Mono-Crystalline
700-720W

0~+5W POWER TOLERANCE

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

15 years material warranty **15**

30 years power linear warranty **30**

132

HALF-CUT
CELLS

**210
x210
mm**

SQUARE
CELLS

Comprehensive 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



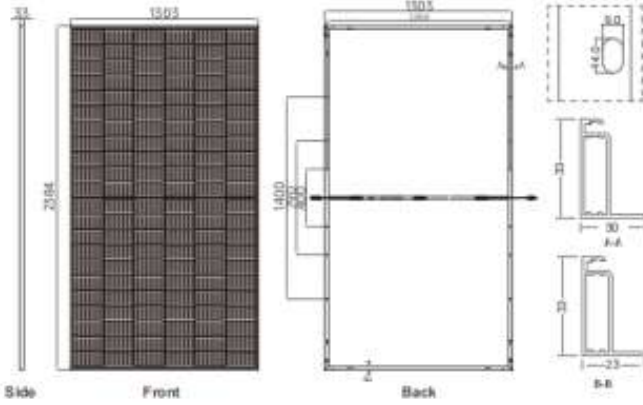
23.2%
MAXIMUM CONVERSION

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) : 34pcs/pallet, 18pallets/ctns, 612pcs/ctn

Electrical Parameters At NOCT

Maximum Power (Pmax)	529	533	537	541	544
Open Circuit Voltage (Voc)	45.73	45.91	46.08	46.17	46.26
Short Circuit Current (Isc135)	14.73	14.77	14.82	14.87	14.91
Maximum Power Voltage (Vmp)	38.22	38.38	38.54	38.70	38.86
Maximum Power Current (Imp)	13.85	13.89	13.93	13.97	14.01

Electrical Parameters

Module Type	QN-700HT-01	QN-705HT-01	QN-710HT-01	QN-715HT-01	QN-720HT-01
	STC	STC	STC	STC	STC
Maximum Power (Pmax)	700	705	710	715	720
Open Circuit Voltage (Voc)	48.15	48.32	48.51	48.60	48.69
Short Circuit Current (Isc)	18.41	18.47	18.52	18.58	18.64
Maximum Power Voltage (Vmp)	40.44	40.61	40.78	40.95	41.12
Maximum Power Current (Imp)	17.31	17.36	17.41	17.46	17.51
Module Efficiency -ηm (%)	22.5	22.7	22.9	23.0	23.2

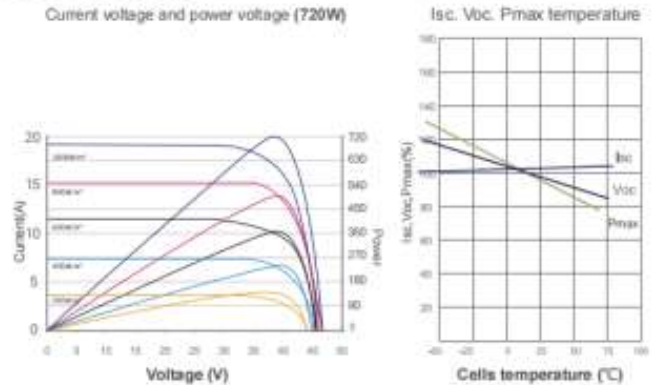
Load Capacity

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

Temperature Coefficient (STC Test)

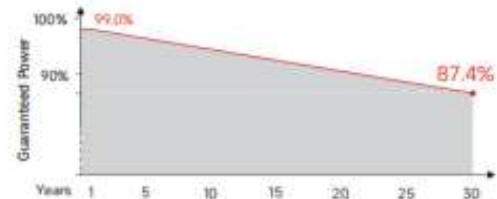
Temperature Coefficient of Isc	+0.04%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Pmax	-0.30%/°C

Curve Figure



Specification

Cell Type	Mono Crystalline
No. of Cells	132[2x(6x11)] pcs
Dimension	2384x1303x33mm
Weight	34.5kg
Glass	3.2mm
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 | Ambien temperature: 20°C | Atmospheric=1.5 | Wind speed 1m/s

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