Q-SUN solar

Mercury Series

Mono-Crystalline

700-720W

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

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

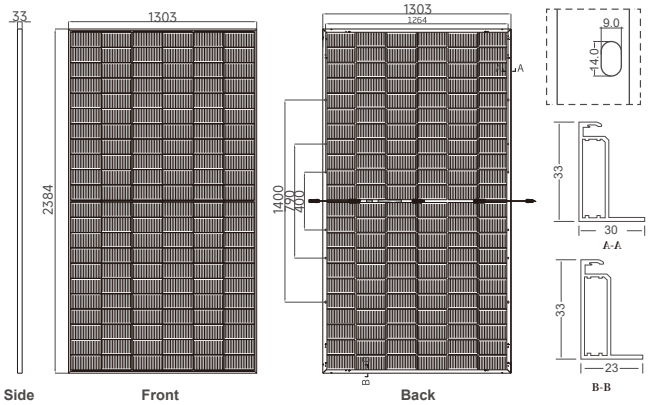
ISO45001:2018: Occupational health and safety management system

N type

700-720W

23.2%	0~+5W	0.4%	Half-Cut Module
MAXIMUM CONVERSION	POWER TOLERANCE	0.4% PER YEAR OVER 2-30 YEARS	LOWER TEMPERATURE COEFFICIENT

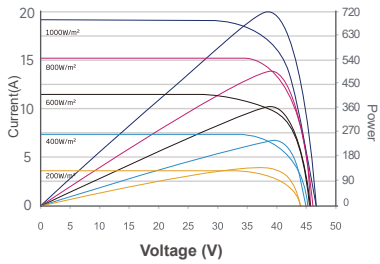
Mechanical Diagrams



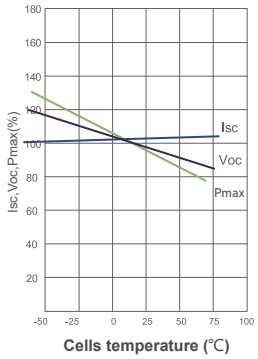
Length: ±2mm Width: ±2mm Thickness: ±1mm Hole pitch: ±2mm

Curve Figure

Current voltage and power voltage **(720W)**

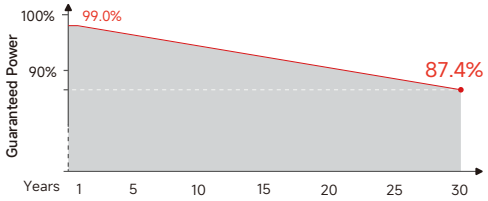


Isc. Voc. Pmax temperature



Specification

Cell Type	Mono Crystalline
No. of Cells	132[2x(6x11)] pcs
Dimension	2384x1303x33mm
Weight	37.8kg
Front Glass	2.0mm
Back Glass	2.0mm
Junction Box	IP68
Cable Length	300mm,1200mm(can be customized)



Packing Standard

Container capacity(40HQ)

Pallet size (mm) ： 34pcs/pallet, 18pallets/ctns, 612pcs/ctn

Electrical Parameters At BNPI

Maximum Power (Pmax)	772	777	783	789	795
Open Circuit Voltage (Voc)	48.13	48.32	48.51	48.68	48.86
Short Circuit Current (Isc135)	20.30	20.36	20.43	20.49	20.55
Maximum Power Voltage (Vmp)	40.44	40.61	40.78	40.95	41.12
Maximum Power Current (Imp)	19.09	19.14	19.20	19.25	19.30
Short Circuit Current (Isc300)	22.61	22.68	22.75	22.82	22.89

Electrical Parameters

Module Type	**QN-700HT-01**		**QN-705HT-01**		**QN-710HT-01**		**QN-715HT-01**		**QN-720HT-01**	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	700	529	705	533	710	537	715	541	720	544
Open Circuit Voltage (Voc)	48.13	45.73	48.32	45.91	48.51	46.08	48.60	46.17	48.69	46.26
Short Circuit Current (Isc)	18.41	14.73	18.47	14.77	18.52	14.82	18.58	14.87	18.64	14.91
Maximum Power Voltage (Vmp)	40.44	38.22	40.61	38.38	40.78	38.54	40.95	38.70	41.12	38.86
Maximum Power Current (Imp)	17.31	13.85	17.36	13.89	17.41	13.93	17.46	13.97	17.51	14.01
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

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 I
Refer.Bifacial Factor	80±10%

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

BNPI: Rear Irradiance 135W/m² | Bifaciality coefficient 80%±5%

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