

Q-SUN solar

Mercury Series

Mono-Crystalline
610~630W

0~+5W POWER TOLERANCE

- High efficiency N - type Double glass 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**

156

HALF-CUT
CELLS

182
x183.75
mm

RECTANGULAR
CELLS

Comprehensive quality management system
and product certification

IEC 61215-1:2021, EN IEC 61215-1:2021/AC:2021

IEC 61215-1-1:2021, EN IEC 61215-1-1:2021

IEC 61215-2:2021, EN IEC 61215-2:2021, IEC 61730-1:2025, IEC 61730-2:2025

ISO9001:2015: Quality management system

ISO14001:2015: Environmental management system

ISO45001:2018: Occupational health and safety management system



23.0%

MAXIMUM CONVERSION

0~+5W

POWER TOLERANCE

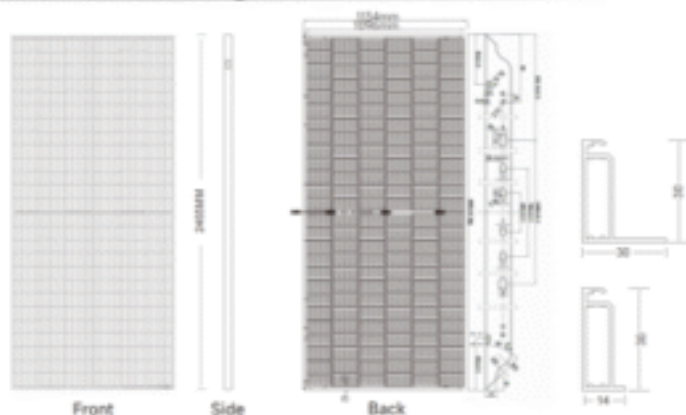
0.4%

0.4% PER YEAR OVER 30 YEARS

Half-Cut Module

LOWER TEMPERATURE COEFFICIENT

Mechanical Diagrams



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

Packing Standard

Container capacity(40HC)

Pallet size (mm) : 36pcs/pallet, 16pallets/ctns, 576pcs/ctn

Electrical Parameters At BNPI

	673	678	684	689	695
Maximum Power (Pmax)	673	678	684	689	695
Open Circuit Voltage (Voc)	54.89	55.11	55.33	55.55	55.77
Short Circuit Current (Isc135)	15.51	15.57	15.64	15.70	15.77
Maximum Power Voltage (Vmp)	46.53	46.73	46.93	47.13	47.33
Maximum Power Current (Imp)	14.46	14.51	14.57	14.62	14.68
Short Circuit Current (Isc300)	17.27	17.35	17.42	17.49	17.56

Electrical Parameters

Module Type	QN-610HT-06		QN-615HT-06		QN-620HT-06		QN-625HT-06		QN-630HT-06	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	610	461	615	465	620	469	625	472	630	476
Open Circuit Voltage (Voc)	54.89	52.15	55.11	52.35	55.33	52.56	55.55	52.77	55.77	52.98
Short Circuit Current (Isc)	14.07	11.25	14.13	11.30	14.18	11.35	14.24	11.39	14.30	11.44
Maximum Power Voltage (Vmp)	46.53	43.97	46.73	44.16	46.93	44.35	47.13	44.54	47.33	44.73
Maximum Power Current (Imp)	13.31	10.49	13.16	10.53	13.21	10.57	13.26	10.61	13.31	10.65
Module Efficiency -ηm (%)	21.8%		22.0%		22.2%		22.4%		22.5%	

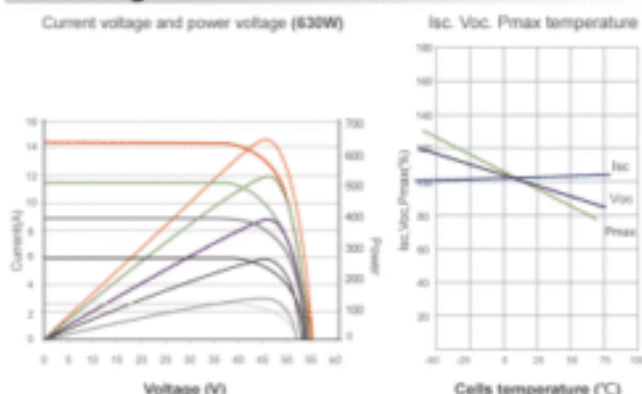
Load Capacity

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

Temperature Coefficient (STC Test)

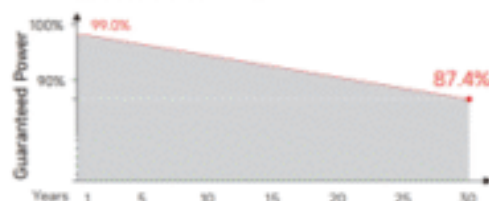
Temperature Coefficient of Isc	+0.046%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Pmax	-0.30%/°C

Curve Figure



Specification

Cell Type	Mono Crystalline
No. of Cells	156(6X26) pcs
Dimension	2465X1134X30mm
Weight	33.9kg
Glass Thickness	Double solar glass 2.0mm
Frame	Anodised aluminum alloy
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	25A
Power Tolerance	0~+5W
Nominal Operating Cell Temperature (NOCT)	43±2°C
Safety Class	Class II
Refer. Bifacial Factor	80±5%

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

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

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