

Mercury Series

Mono-Crystalline 630~650W

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 61730-1:2023, IEC 61730-2:2023

ISO9001:2015: Quality management system

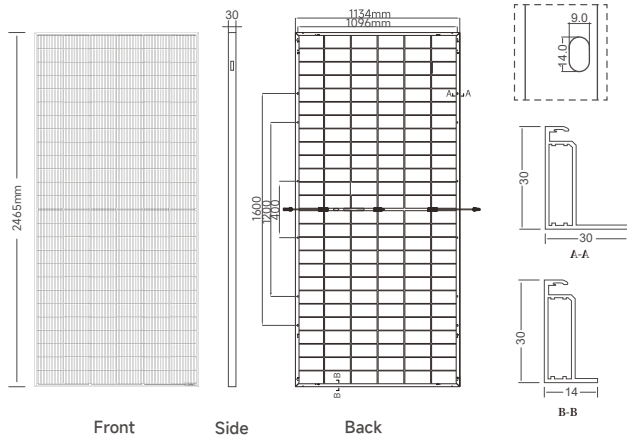
ISO14001:2015: Environmental management system

ISO45001:2018: Occupational health and safety management system



23.3%
MAXIMUM CONVERSION0~+5W
POWER TOLERANCE0.4%
0.4% PER YEAR OVER 30 YEARSHalf-Cut Module
LOWER TEMPERATURE COEFFICIENT

Mechanical Diagrams



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

Packing Standard

Container capacity(40HQ)

Pallet size (mm) 37pcs/pallet, 16pallets/ctns, 592pcs/ctn

Electrical Parameters At BNPI

Maximum Power (Pmax)	695	700	706	711	717
Open Circuit Voltage (Voc)	56.04	56.26	56.33	56.44	56.52
Short Circuit Current (Isc135)	15.69	15.75	15.82	15.88	15.94
Maximum Power Voltage (Vmp)	47.58	47.78	47.98	48.17	48.36
Maximum Power Current (Imp)	14.60	14.65	14.71	14.76	14.82
Short Circuit Current (Isc300)	17.47	17.54	17.62	17.69	17.76

Electrical Parameters

Module Type	QN-630HT-06		QN-635HT-06		QN-640HT-06		QN-645HT-06		QN-650HT-06	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	630	476	635	480	640	484	645	488	650	491
Open Circuit Voltage (Voc)	56.04	53.24	56.26	53.45	56.33	53.66	56.44	53.66	56.52	53.70
Short Circuit Current (Isc)	14.23	11.38	14.29	11.43	14.34	11.48	14.40	11.53	14.46	11.57
Maximum Power Voltage (Vmp)	47.58	44.96	47.78	45.15	47.98	45.34	48.17	45.53	48.36	45.70
Maximum Power Current (Imp)	13.24	10.59	13.29	10.63	13.34	10.67	13.39	10.71	13.44	10.75
Module Efficiency -ηm (%)	22.6		22.7		22.9		23.1		23.3	

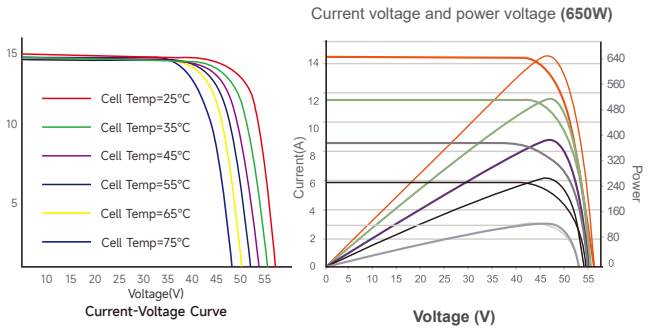
Load Capacity

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

Temperature Coefficient (STC Test)

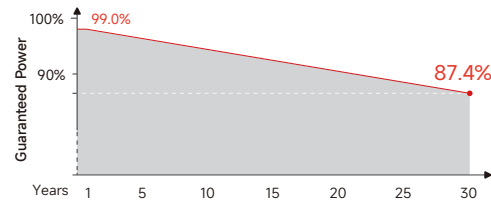
Temperature Coefficient of Isc	+0.04%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Pmax	-0.29%/°C

Curve Figure



Specification

Cell Type	mono crystalline 16BB
No. of Cells	156 [2x(6x13)] pcs
Dimension	2465x1134x30mm
Weight	33.7kg
Front Glass	2.0 mm
Back Glass	2.0 mm
Junction Box	IP68
Cable Length	300mm, 1200mm (can be customized)



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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