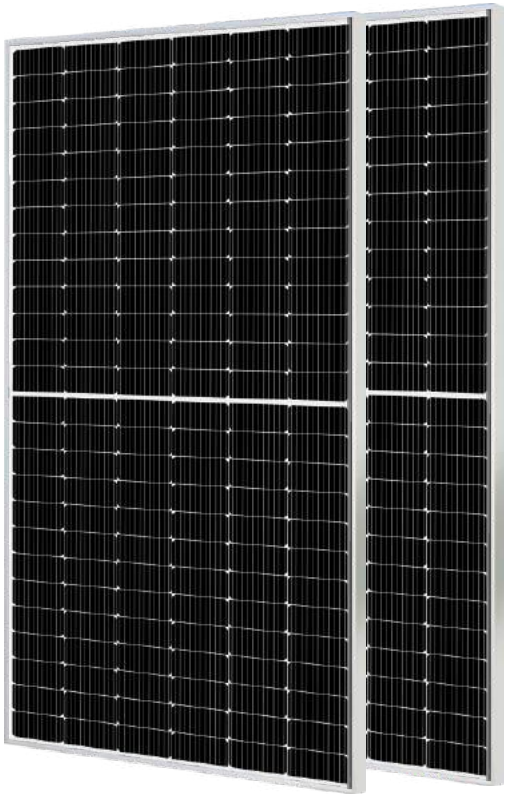
Module Picture



QN-182M60045

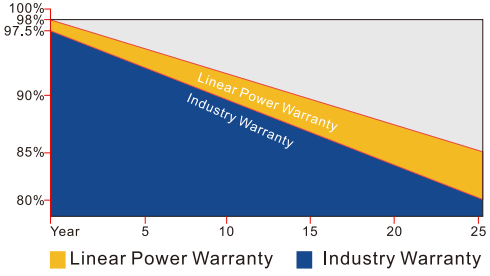
Mono Half-cut Single/ Module 580-600/MB

LCOE save 6-8%

- ↓6% Saving logistics cost
- ↓7% Saving cable cost
- ↓8% Saving bracket cost
- ↓9% Saving labor cost

First-class Quality Assurance

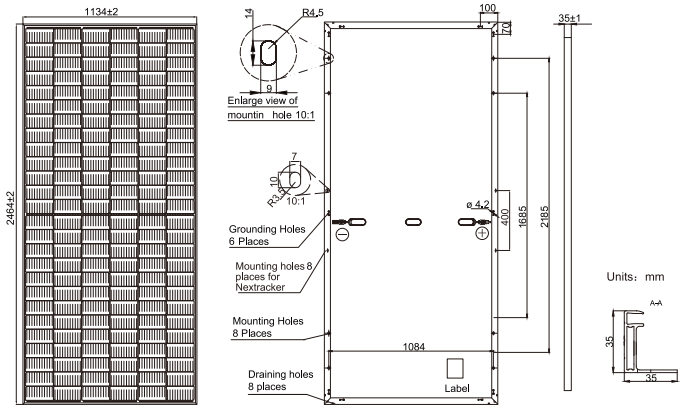
- 10-year warranty for material and technology
- 25-year linear power output warranty



Comprehensive Certificates

- IEC61215/IEC61701/IEC61730
- ISO 9001:2015 Quality Management System
- ISO 45001:2018 Occupational health and safety management system
- ISO 14001:2015 Environmental Management System

Mechanical Diagrams



PS:Frame color and cable length can be customized

Specifications

Solar Cell(Type/Size)	MONO(182mm)
Solar Cells Number	156pcs(6*26)
Dimensions	2464×1134×35mm
Weight	30.0Kg/Pcs
Structure	3.2 Glass + EVA film + Back
Frame	Anodized Aluminum Alloy
Junction Box	IP68 、3*Bypass Diode
Cable Cross Section Size	4.0mm²,(+)280mm/(-)400mm
Mechanical Load	Front 5400Pa/Back 2400Pa
Packing Number	31Pcs/Pallet
Packing Volume	3.542Cbm/Pallet
40'HQ Container	590Pcs

Electrical Parameters at STC

Module Type	QN580M	QN585M	QN590M	QN595M	QN600M
Rate Maximum Power(Pmax/W)	580	585	590	595	600
Module Efficiency(%)	20.70	20.90	20.10	21.30	21.50
Open Circuit Volatge(Voc/V)	53.50	53.65	53.80	53.95	54.10
Short Circuit Current(Isc/A)	13.82	13.89	13.96	14.03	14.10
Voltage at Pmax(Vmp/V)	44.90	45.07	45.22	45.39	45.53
Current at Pmax(Imp/A)	12.92	12.98	13.05	13.11	13.18
Power Tolerance	0~+5w				
Temperature Coefficent of Isc	+0.046%°C				
Temperature Coefficent of Voc	-0.276%°C				
Temperature Coefficent of Pmax	-0.350%°C				
STC	Irradiance 1000W/m² Cell Temperature 25°C AM1.5				

Remark: Electrical data in this catalogue does not refer to a single module, and it's not part of the offer. It only serves for the comparison among different module types.

Electrical Parameters at NOCT

Module Type	QN580M	QN585M	QN590M	QN595M	QN600M
Rate Maximum Power(Pmax/W)	438	441	445	448	452
Open Circuit Voltage(Voc.V)	50.09	50.22	50.35	50.48	50.60
Short Circuit Current(Isc/A))	11.03	11.08	11.12	11.17	11.22
Voltage at Pmax(Vmp/V)	42.03	42.17	42.39	42.51	42.73
Currrnt at Pmax(Imp/A)	10.42	10.46	10.50	10.54	10.58

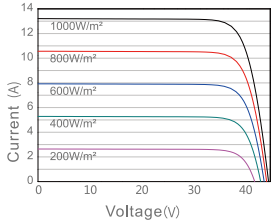
NOCT: Irradiance 800W/m² Ambient Temperature 20°C Wind at 1m/S AM1.5

Operating Conditions

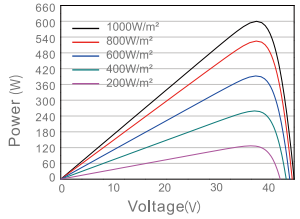
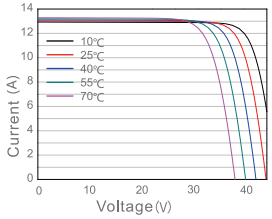
Operating Temperature	-40~+85°C
Maximum System Voltage	1500VDC
NOCT	45±2°C
Fireproof Performance	Glass C
Maximum Series Fuse	25A
Temperature Coefficient of Voc	-0.276%/K
Temperature Coefficient of Isc	+0.046%/K

Characteristics

Current Voltage Curve



Power Voltage Curve



Current Voltage Curve