

Q-SUN solar

QN-72-18X(NLm)

Lightweight and Flexible Mono-Crystalline

535~555W

0~+5W POWER TOLERANCE

High Efficiency, Low LID

Half-cell TOPCon Technology

144

HALF-Cell
CELLS

182
x91
mm

SQUARE
CELLS

12 years material warranty

12

30 years power linear warranty

30

Quick installation

through 'Quick-Bonding' technology eliminates traditional mounting systems, resulting in reduced installation costs.

Safety

Integrated with the roof installation surface to ensure waterproof performance and safety of the roof.

Ultra-lightweight

This module weighs only 7.5 kg, reducing weight by up to 70% compared to conventional glass modules.

Flexibility

The biggest advantage of flexible PV modules is their ability to bend, allowing them to adapt to a wider range of applications.

A sound 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



FLEXIBILITY

535~555W

21.4%
MAXIMUM CONVERSION

0~+5W
POWER TOLERANCE

0.4%
0.4% PER YEAR OVER 30 YEARS

Half-cell Module
LOWER TEMPERATURE COEFFICIENT

Specification

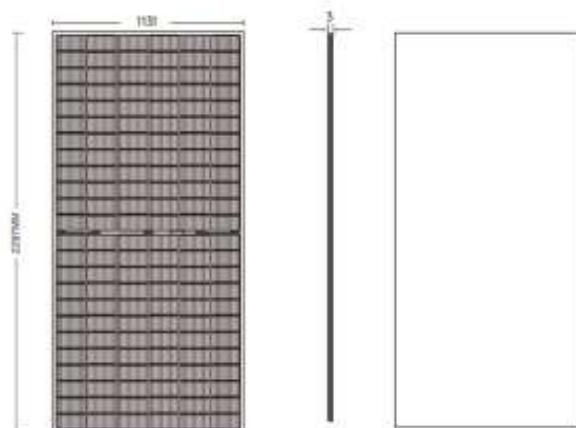
Cell Type	Mono-Crystalline 182x91mm
No. of Cells	144(6 x 24) pcs
Dimension	2297mmx1131mm x3 mm
Weight	7.5±0.5kg
Connector	MC4/MC4 Compatible
Frame	Frameless Design
Junction Box	IP68
Cable Length	4mm2 (UL/IEC) length: 400mm (+, -) /or customizable

Packing Standard

40'HQ container

58pcs/pallet, 20pallets/ctns, 1160pcs/ctn

Mechanical Diagrams



Length: ±2mm Width: ±2mm Thickness: ±0.1mm

Electrical Parameters At STC

Module Type	QN-72-18X(NLm)-535	QN-72-18X(NLm)-540	QN-72-18X(NLm)-545	QN-72-18X(NLm)-550	QN-72-18X(NLm)-555
Peak Power-Pmax	535W	540W	545W	550W	555W
Open Circuit Voltage-Voc	49.50V	49.70V	49.90V	50.10V	50.30V
Short Circuit Current-Isc	13.67A	13.75A	13.83A	13.91A	13.99A
Maximum Power Voltage-Vmp	41.5V	41.5V	41.7V	41.9V	42.3V
Maximum Power Current-mp	12.96A	13.02A	13.07A	13.13A	13.19A
Module Efficiency - nm	20.6%	20.8%	21.0%	21.2%	21.4%

Electrical Parameters At NMOT

	397W	399W	402W	406W	409W
Maximum Power-Pmax					
Open Circuit Voltage-Voc	46.58V	46.68V	46.77V	46.87V	46.96V
Short Circuit Current-Isc	11.11A	11.18A	11.27A	11.35A	11.43A
Maximum Power Voltage-Vmp	38.60V	38.70V	38.80V	38.90V	39.00V
Maximum Power Current-Imp	10.22A	10.30A	10.36A	10.43A	10.50A

Operating Parameters

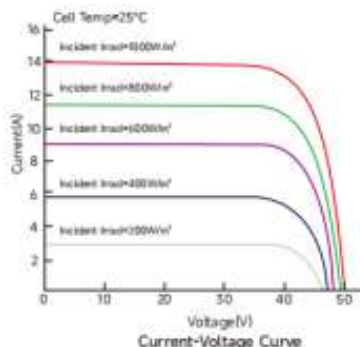
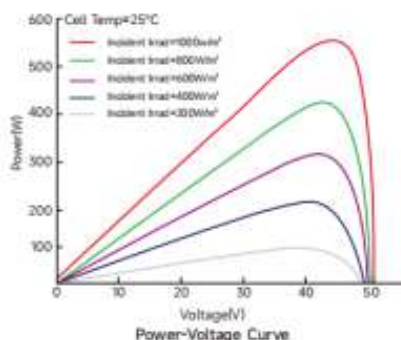
Maximum System Voltage	1500V DC (UL/IEC)
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45±2°C
Operational Temperature	-45°C~+85°C
Safety Class	Class II

Temperature Coefficient (STC Test)

Temperature Coefficient of Isc	+0.046%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Pmax	-0.31%/°C

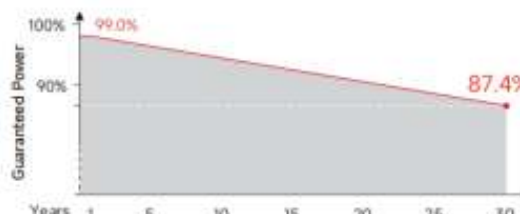
Product Features

High Efficiency, Low LID, Half-cell TOPCon Technology



1.00%
First year
attenuation

0.40%
Annual average
temperature coefficient
after one year



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

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