

QN-72-18X(Lm)

Lightweight and Flexible Mono-Crystalline

510~530W

0~+5W POWER TOLERANCE

High Efficiency, Low LID

Half-cell Technology, Lightweight Flexible Module

144

HALF-Cell
CELLS

182
x91
mm

SQUARE
CELLS

12 years material warranty



25 years power linear warranty



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

510~530W

20.4%
MAXIMUM CONVERSION

0~+5W
POWER TOLERANCE

0.6%
0.6% PER YEAR OVER 25 YEARS

Half-cell Module
LOWER TEMPERATURE COEFFICIENT

Specification

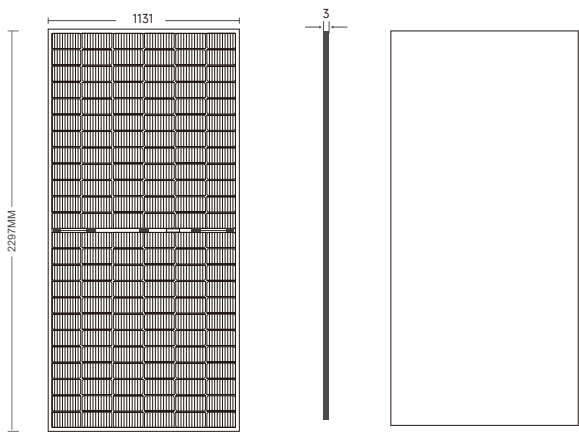
Cell Type	Mono-Crystalline 182x91mm
No. of Cells	144(6 x 24) pcs
Dimension	2297 x1131x3 mm
Weight	7.5±0.5kg
Connector	MC4-EVO2/MC4 Compatible
Frame	Frameless Design
Junction Box	IP68
Cable Length	4mm2 (UL/IEC) length: 400mm (+, -) /or customizable

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(Lm)-510	QN-72-18X(Lm)-515	QN-72-18X(Lm)-520	QN-72-18X(Lm)-525	QN-72-18X(Lm)-530
Peak Power-Pmax	510W	515W	520W	525W	530W
Open Circuit Voltage-Voc	49.30V	49.45V	49.60V	49.75V	49.90V
Short Circuit Current-Isc	13.50A	13.56A	13.63A	13.70A	13.76A
Maximum Power Voltage-Vmp	40.75V	40.90V	41.05V	41.20V	41.35V
Maximum Power Current-mp	12.54A	12.61A	12.68A	12.75A	12.83A
Module Efficiency - nm	19.6%	19.8%	20.0%	20.2%	20.4%

Electrical Parameters At NMOT

Maximum Power-Pmax	382W	385W	389W	392W	396W
Open Circuit Voltage-Voc	46.00V	46.10V	46.30V	46.40V	46.50V
Short Circuit Current-Isc	10.90A	10.95A	11.01A	11.06A	11.11A
Maximum Power Voltage-Vmp	37.50V	37.60V	37.80V	37.90V	38.10V
Maximum Power Current-Imp	10.18A	10.23A	10.29A	10.35A	10.40A

Operating Parameters

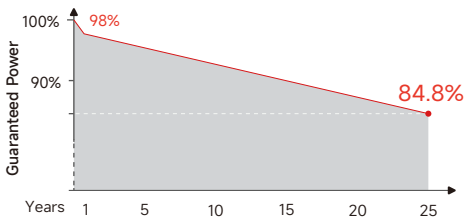
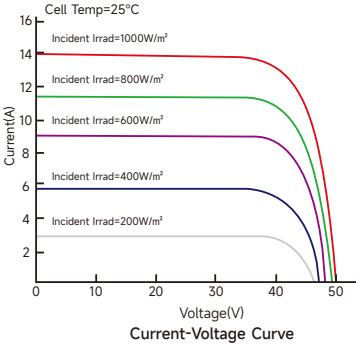
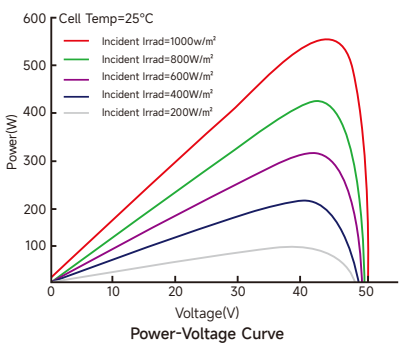
Maximum System Voltage	1500V DC (UL/IEC)
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45±2°C
Operational Temperature	-45°C~+85°C
Safety Class	Class A+

Temperature Coefficient (STC Test)

Temperature Coefficient of Isc	+0.045%/°C
Temperature Coefficient of Voc	-0.275%/°C
Temperature Coefficient of Pmax	-0.35%/°C

Product Features

High Efficiency, Low LID
Half-cell Technology,Lightweight Flexible Module



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

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