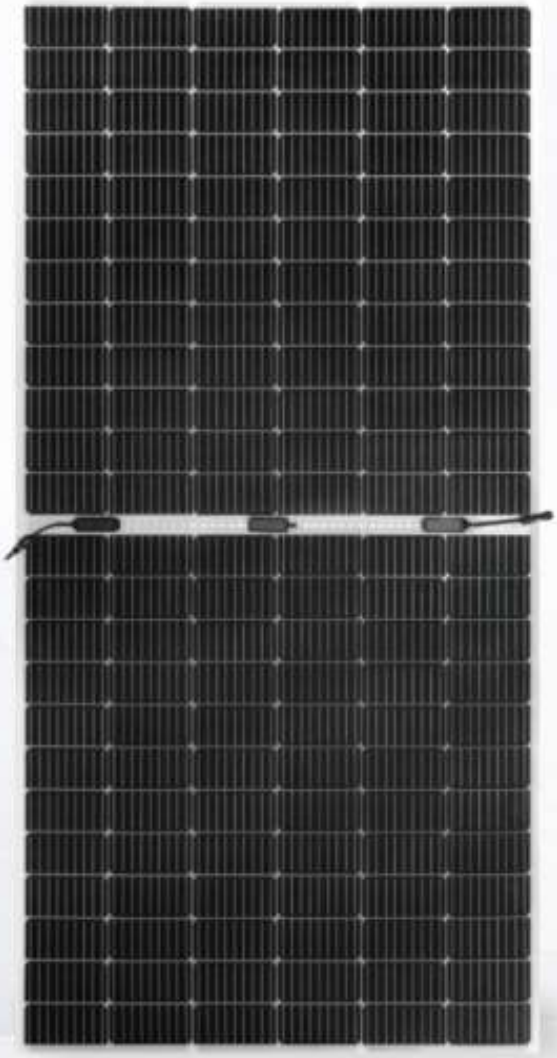
Q-SUN solar



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 12

25 years power linear warranty 25

Quick installation

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

Ultra-lightweight

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

Safety

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

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%	0~+5W	0.6%	Half-cell Module
MAXIMUM CONVERSION	POWER TOLERANCE	0.6% PER YEAR OVER 25 YEARS	LOWER TEMPERATURE COEFFICIENT

Specification

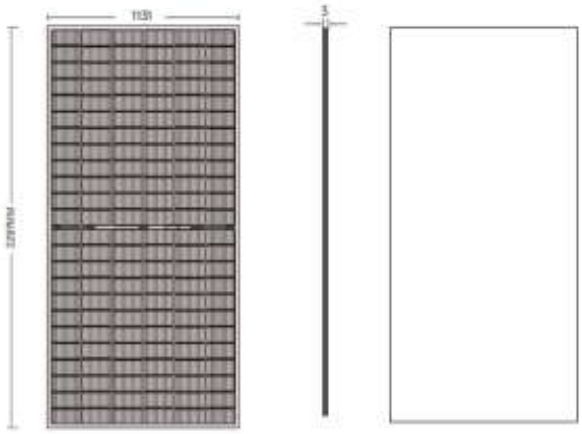
Cell Type	Mono-Crystalline 182x91mm
No. of Cells	144(6 x 24) pcs
Dimension	2297 x1131x3 mm
Weight	7.5±0.5kg
Connector	MC4-EVO2/MC4 Compatible
Frame	Frameless Design
Junction Box	IP68
Cable Length	4mm2 (UL/IEC) length: 400mm (+, -) /or customizable

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

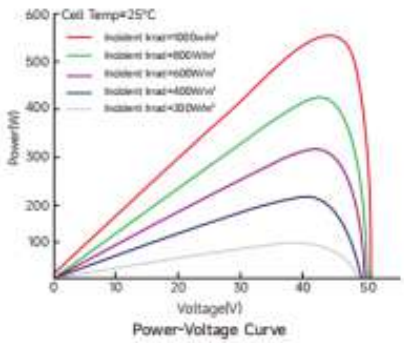
Maximum System Voltage	1500V DC (UL/IEC)
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45±2°C
Operational Temperature	-45°C~+85°C
Safety Class	Class II

Temperature Coefficient (STC Test)

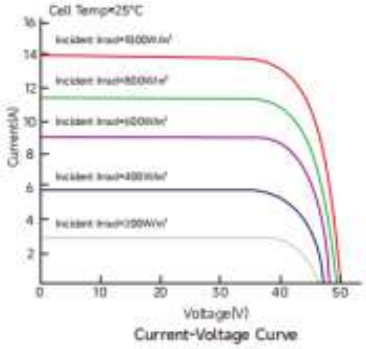
Temperature Coefficient of Isc	+0.045%/°C
Temperature Coefficient of Voc	-0.275%/°C
Temperature Coefficient of Pmax	-0.35%/°C

Product Features

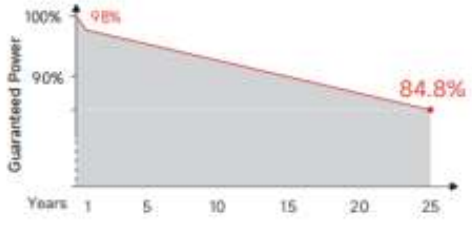
High Efficiency, Low LID
Half-cell Technology,Lightweight Flexible Module



Power-Voltage Curve



Current-Voltage Curve



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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