

QN-60-18X(Lm)

Lightweight and Flexible Mono-Crystalline

420~440W

0~+5W POWER TOLERANCE

High-efficiency, low LID

Half-cell Technology, Lightweight Flexible Module

120

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 6.3 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

420~440W

20.2%

MAXIMUM CONVERSION

0~+5W

POWER TOLERANCE

0.6%

0.6% PER YEAR OVER 25 YEARS

Half-Cell Module

LOWER TEMPERATURE COEFFICIENT

Specification

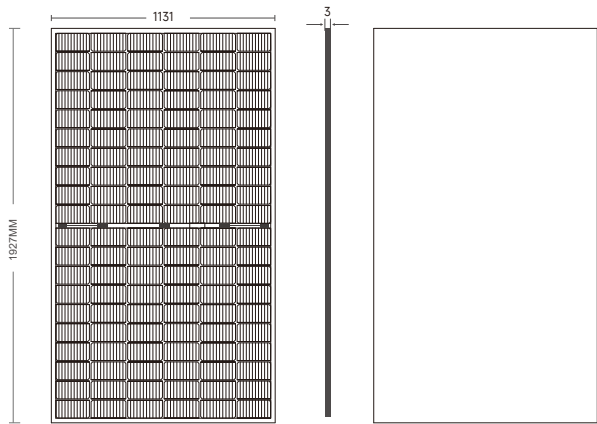
Cell Type	Mono-Crystalline 182x91mm
No. of Cells	120(6 x 20) pcs
Dimension	1927mmx1131mm x3 mm
Weight	6.3±0.5kg
Connector	MC4-EVO2/MC4 Compatible
Frame	Frameless Design
Junction Box	IP68
Cable Length	4mm2 (UL/IEC) length: 400mm (+, -) /or customizable

Packing Standard

40'HQ container

58pcs/pallet, 22pallets/ctns, 1276pcs/ctn

Mechanical Diagrams



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

Electrical Parameters At STC

Module Type	QN-60-18X(Lm)-420	QN-60-18X(Lm)-425	QN-60-18X(Lm)-430	QN-60-18X(Lm)-435	QN-60-18X(Lm)-440
Peak Power-Pmax	420W	425W	430W	435W	440W
Open Circuit Voltage-Voc	41.13V	41.28V	41.13V	41.58V	41.73V
Short Circuit Current-Isc	13.48A	13.55A	13.62A	13.69A	13.76A
Maximum Power Voltage-Vmp	33.88V	34.03V	34.18V	34.33V	34.48V
Maximum Power Current-mp	12.41A	12.51A	12.60A	12.68A	12.77A
Module Efficiency - nm(%)	19.3	19.5	19.8	20.0	20.2

Electrical Parameters At NMOT

Maximum Power-Pmax	312W	316W	320W	324W	327W
Open Circuit Voltage-Voc	38.32V	38.46V	38.60V	38.75V	38.89V
Short Circuit Current-Isc	10.88A	10.96A	10.99A	11.05A	11.11A
Maximum Power Voltage-Vmp	32.11V	32.25V	32.40V	32.54V	32.68V
Maximum Power Current-Imp	9.72A	9.80A	9.88A	9.96A	10.01A

Operating Parameters

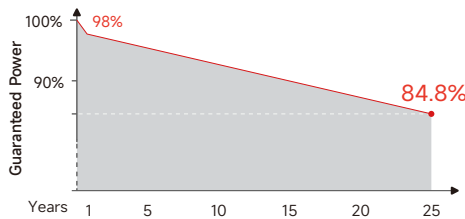
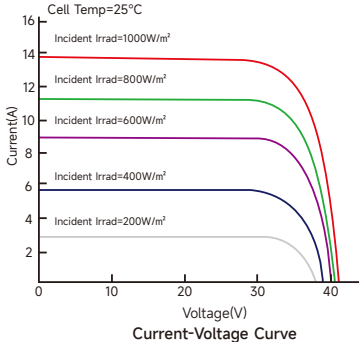
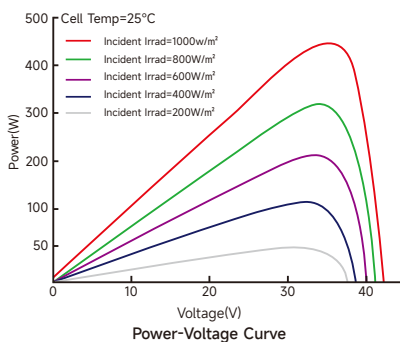
Maximum System Voltage	1500V DC (UL/IEC)
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45±2°C
Operational Temperature	-45°C~+85°C
Safety Class	Class A+

Temperature Coefficient (STC Test)

Temperature Coefficient of Isc	+0.047%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Pmax	-0.35%/°C

Product Features

High-efficiency, low LID, half-cell technology.



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

D5 Greenland Window Building
Nonghua Road
Yuhuatai District, Nanjing, China
www.q-sunsolar.com

