



# QN-60-18X(NLm)

Lightweight and Flexible Mono-Crystalline

440~460W

0~+5W POWER TOLERANCE

High Efficiency, Low LID Half-cell TOPCon Technology





12 years material warranty



30 years power linear warranty



# Quick installation

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

# Ultra-lightweight

This module weighs only 6.3 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













# **FLEXIBILITY**

/or customizable

**0.4%**0.4% PER YEAR OVER 30 YEARS

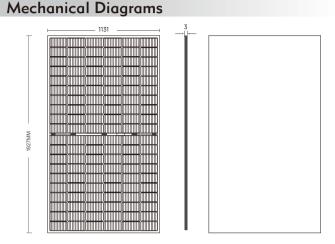
Half-Cell Module

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/MC4 Compatible			
Frame	Frameless Design			
Junction Box	IP68			
Cable Length	4mm2 (UL/IEC) length: 400mm (+, -)			

## **Packing Standard**

40'HQ container

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



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

**Product Features** 

## **Electrical Parameters At STC**

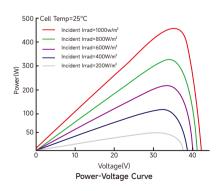
Module Type	QN-60-18X(NLm)-440	QN-60-18X(NLm)-445	QN-60-18X(NLm)-450	QN-60-18X(NLm)-455	QN-60-18X(NLm)-460
Peak Power-Pmax	440W	445W	450W	455W	460W
Open Circuit Voltage-Voc	41.03V	41.18V	41.33V	41.48V	41.63V
Short Circuit Current-Isc	13.76A	13.83A	13.90A	13.97A	14.04A
Maximum Power Voltage-Vmp	34.48V	34.63V	34.78V	34.93V	35.08V
Maximum Power Current-mp	12.76A	12.85A	12.93A	13.02A	13.11A
Module Efficiency - nm	20.2%	20.4%	20.6%	20.8%	21.1%

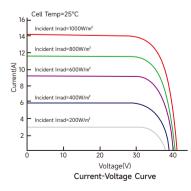
### **Electrical Parameters At NMOT** Maximum Power-Pmax 329W 333W 337W 340W 344W Open Circuit Voltage-Voc 48.4V 48.48V 48.59V 48.69V 48.78V **Short Circuit Current-Isc** 8.75A 8.83A 8.91A 9.00A 9.09A Maximum Power Voltage-Vmp 40.10V 40.24V 40.33V 40.41V 40.50V **Maximum Power Current-Imp** 8.27A 8.35A 8.42A 8.49A

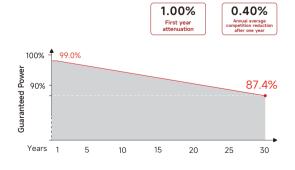
1500V DC (UL/IEC)	
25A	
45±2°C	
-45°C-+85°C	
Class A+	

### **Temperature Coefficient (STC Test)** Temperature Coefficient of Isc +0.046%/°C **Temperature Coefficient of Voc** -0.25%/°C -0.31%/°C **Temperature Coefficient of Pmax**

High Efficiency, Low LID, Half-cell TOPCon Technology







STC: Irradiance:1000W/m<sup>2</sup> | 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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