

# Mono 182

QN-182M45035-HN

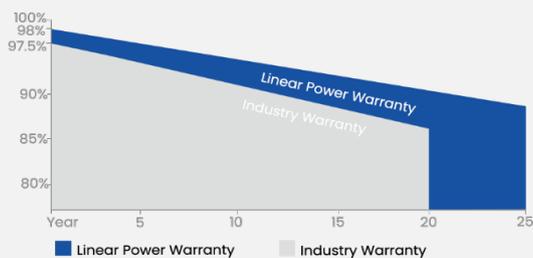
## Half Cut Cell Solar Module



### Quality Guarantee

5-Year Warranty for Materials and Processing

25-Year Warranty for Extra Linear Power Output



### Multiple Main Grid Design

Better light utilization and current collection capability, effectively improve product power output and reliability.

### Anti PID Guarantee

The attenuation rate caused by PID phenomenon is minimized by battery production technology optimization and material control.

### Adaptability To Harsh Environments

Third party certification through high salt spray and high ammonia corrosion test.

### Capacity Of Load

The whole assembly passes 2400Pa wind load and 5400Pa snow load.

### Comprehensive Certificates

IEC61215, IEC61701, IEC61730

ISO9001:2015 Quality management systems

ISO45001: Environmental management systems

ISO45001:2018 Occupational health and safety management systems



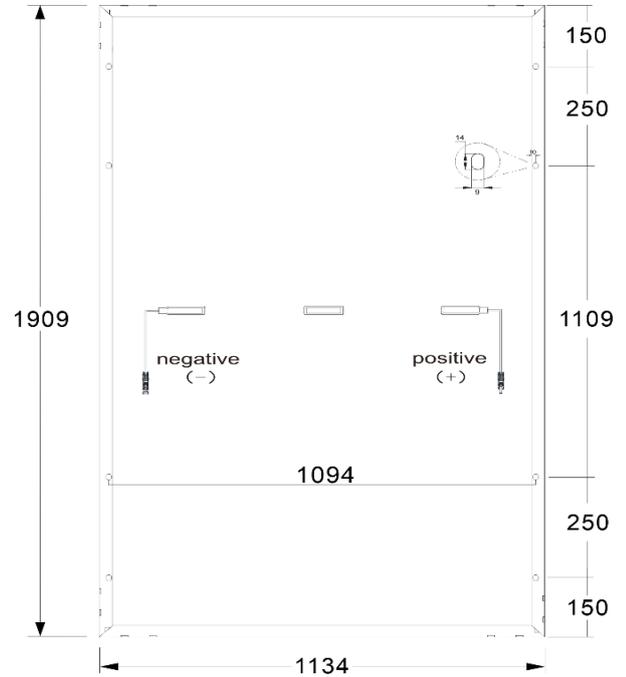
# QN-182M45035-HN

## Specifications

|                          |                           |
|--------------------------|---------------------------|
| Solar Cell (Type/Sizes)  | Mono(182mm)               |
| Solar Cells Number       | 120Pcs(6*10)              |
| Dimensions               | 1909*1134*30mm            |
| Weight                   | 23.9KG/Pcs                |
| Structure                | 3.2 Glass+EVA Film+Back   |
| Frame                    | Anodized aluminum alloy   |
| Junction Box             | IP68/3*Bypass Diode       |
| Cable Cross Section Size | 4.0mm <sup>2</sup> /300mm |
| Mechanical Load          | Front 5400Pa/Back 2400Pa  |
| Packing Number           | 36Pcs/Pallet              |
| Packing Volume           | 2.78Cbm/Pallet            |
| 40'HQ Container          | 864 Pcs                   |

## Electrical Parameters at STC

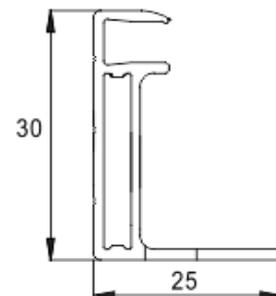
| Module Type                     | QN430   | QN435  | QN440  | QN445  | QN450  | QN455  |
|---------------------------------|---|--------|--------|--------|--------|--------|
| Rate Maximum Power (Pmax)       | 430W  | 435W   | 440W   | 445W   | 450W   | 455W   |
| Module Efficiency               | 19.90%  | 20.10% | 20.30% | 20.60% | 20.80% | 21.10% |
| Open Circuit Volatge (Voc)      | 40.65V  | 40.8V  | 40.95V | 41.10V | 41.25V | 41.40V |
| Short Circuit Current (Isc)     | 13.59A  | 13.67A | 13.74A | 13.82A | 13.89A | 13.97A |
| Voltage at Pmax (Vmp)           | 33.89V  | 34.09V | 34.28V | 34.48V | 34.67V | 34.87V |
| Current at Pmax (Imp)           | 12.69A  | 12.77A | 12.84A | 12.91A | 12.98A | 13.05A |
| Power Tolerance                 | 0~ +5W  |        |        |        |        |        |
| Temperature Coefficient of Isc  | +0.046%/°C  |        |        |        |        |        |
| Temperature Coefficient of Voc  | -0.276%/°C  |        |        |        |        |        |
| Temperature Coefficient of Pmax | -0.350%/°C  |        |        |        |        |        |
| STC                             | Irradiance 1000W/m <sup>2</sup> Cell Temperature 25°C AM1.5 |        |        |        |        |        |



Mechanical Diagrams

## Operating Conditions

|                                |           |
|--------------------------------|-----------|
| Operating Temperature          | -40~+85°C |
| Maximum System Voltage         | 1500VDC   |
| NOCT                           | 45±2°C    |
| Fireproof Performance          | Glass C   |
| Maximum Series Fuse            | 25A       |
| Temperature Coefficient of Voc | -0.276%/K |
| Temperature Coefficient of Isc | +0.046%/K |



Units: mm/±2

## Characteristics

