

# DHN-72X16 575~595W

High Efficiency Single Glass PV Module

## Comprehensive Products & System Certificates

IEC 61215 / IEC 61730 / CE / INMETRO  
ISO 45001  
2018/International standards for occupational health & safety  
ISO 14001  
2015/Standards for environmental management system  
ISO 9001  
2015/Quality management system

15 Material & technology warranty

30 Linear power output warranty



Higher power, longer service life, linear power warranty for 30 years



TOPCon cells have a lower decay rate,  
≤ 1% in the first year and ≤ 0.4% in the second year



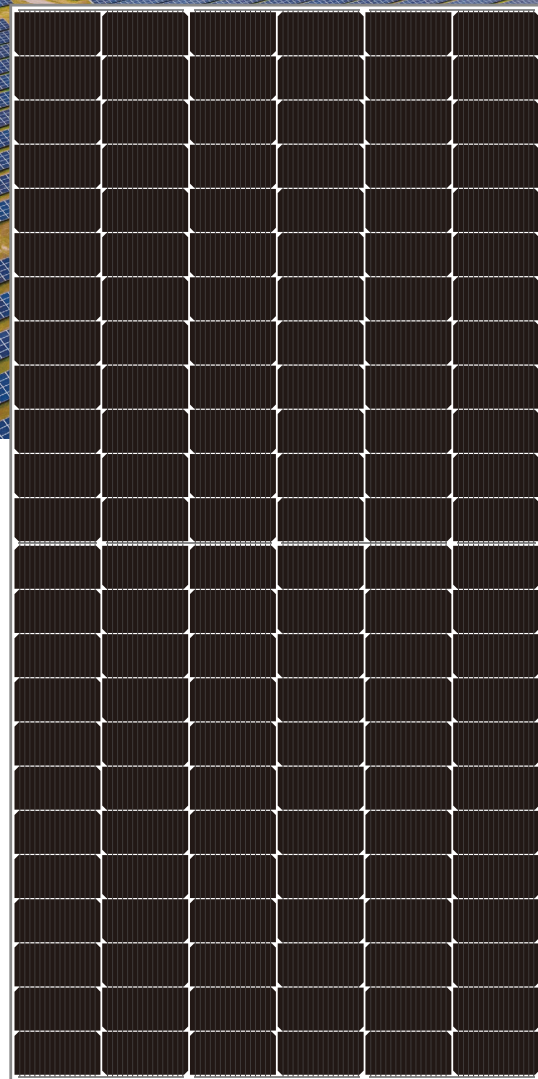
Lower temperature coefficient,  
better high-temperature resistance, reduced power loss



Better weak light performance, higher power generation under  
low light conditions, with 0.5% -1% more power generation

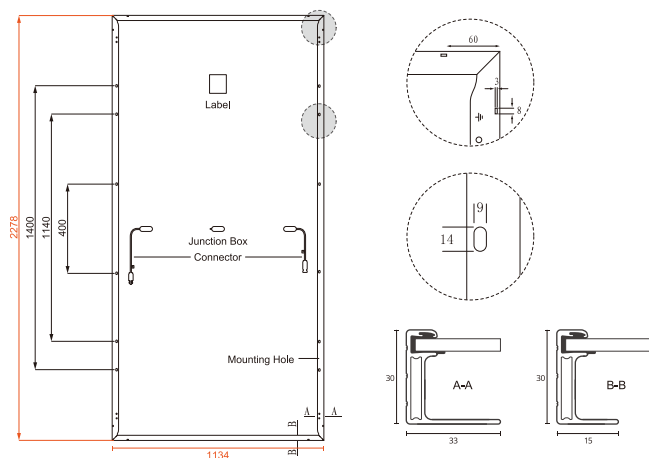


LECO laser assisted sintering technology,  
reduces contact resistance and improves efficiency by 0.2% -0.5%

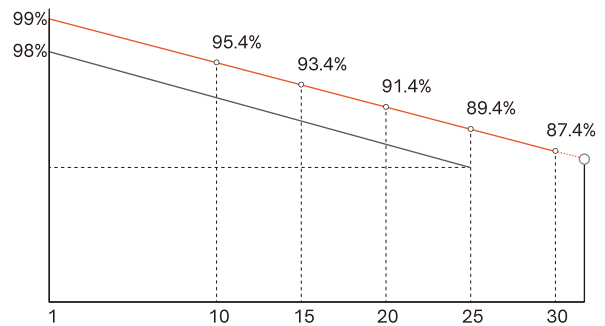


# DHN-72X16 575~595W

## Design



## 30-Year Linear Power Output Warranty



— DAH Solar linear power output guarantee  
— Standard linear power output guarantee

## Mechanical Specification

|                   |                           |
|-------------------|---------------------------|
| No. of Cells      | 144 (6×24)                |
| Weight            | 27.3kg                    |
| Cells Type        | N-type 182×91mm           |
| Dimension (L×W×T) | 2278×1134×30mm            |
| Packing           | 36pcs/Pallet, 720pcs/40HQ |

|                            |                                                                    |
|----------------------------|--------------------------------------------------------------------|
| Cable(Including connector) | 4.0mm <sup>2</sup> , 300/200mm in length, length can be customized |
| Glass                      | 3.2mm High Transmission, Antireflection Coating                    |
| Junction Box               | IP68, 3 Bypass Diodes                                              |
| Connector                  | MC4 Compatible                                                     |

## STC-Electrical Characteristics

| Module Type                                | DHN-72X16 |       |       |       |       |
|--------------------------------------------|-----------|-------|-------|-------|-------|
| Maximum Power (P <sub>max</sub> /W)        | 575       | 580   | 585   | 590   | 595   |
| Open-circuit Voltage (V <sub>oc</sub> /V)  | 51.2      | 51.4  | 51.6  | 51.8  | 52.0  |
| Maximum Power Voltage (V <sub>mp</sub> /V) | 43.4      | 43.6  | 43.8  | 44.0  | 44.2  |
| Short-circuit Current (I <sub>sc</sub> /A) | 14.08     | 14.14 | 14.20 | 14.26 | 14.32 |
| Maximum Power Current (I <sub>mp</sub> /A) | 13.25     | 13.30 | 13.36 | 13.41 | 13.46 |
| Module Efficiency (%)                      | 22.26     | 22.45 | 22.65 | 22.84 | 23.03 |

STC-Standard Test Environment: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, Spectrum AM1.5

## NOCT-Electrical Characteristics

|                                            |       |       |       |       |       |
|--------------------------------------------|-------|-------|-------|-------|-------|
| Maximum Power (P <sub>max</sub> /W)        | 432   | 436   | 440   | 444   | 447   |
| Open-circuit Voltage (V <sub>oc</sub> /V)  | 48.6  | 48.8  | 49.0  | 49.2  | 49.4  |
| Maximum Power Voltage (V <sub>mp</sub> /V) | 41.2  | 41.4  | 41.6  | 41.8  | 42.0  |
| Short-circuit Current (I <sub>sc</sub> /A) | 11.37 | 11.42 | 11.46 | 11.51 | 11.56 |
| Maximum Power Current (I <sub>mp</sub> /A) | 10.49 | 10.53 | 10.57 | 10.61 | 10.66 |

NOCT-Standard Test Environment: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Spectrum AM1.5, Wind speed 1m/s

## Operating Parameters

|                                    |             |
|------------------------------------|-------------|
| Maximum System Voltage             | 1500V DC    |
| Operating Temperature              | -40 ~ +85°C |
| Maximum Series Fuse Rating         | 25A         |
| Nominal Operating Cell Temperature | 45°C±2°C    |
| Application Level                  | Class A     |

## Temperature Coefficient

|                                                                 |               |
|-----------------------------------------------------------------|---------------|
| Temperature Coefficient of I <sub>sc</sub> (α <sub>Isc</sub> )  | 0.046%/°C     |
| Temperature Coefficient of V <sub>oc</sub> (β <sub>Voc</sub> )  | -0.25%/°C     |
| Temperature Coefficient of P <sub>max</sub> (γ <sub>Pmp</sub> ) | -0.29%/°C     |
| Snow load, frontside / Wind load, backside                      | 5400Pa/2400Pa |