

# DHN-72X16


# 575~590W

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



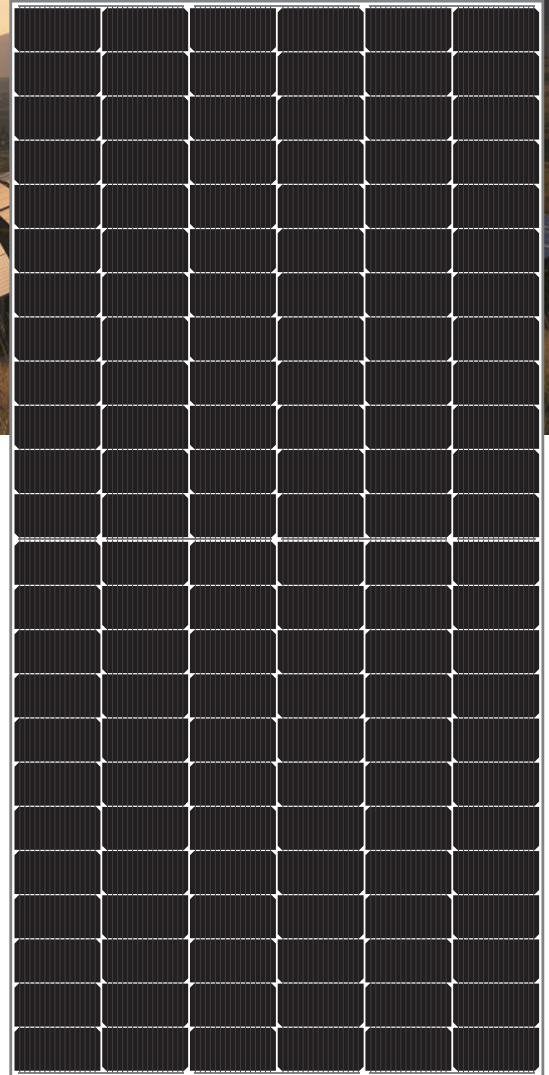
Lower temperature coefficient, better high-temperature resistance,  
reduced power loss, and better high-temperature resistance



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

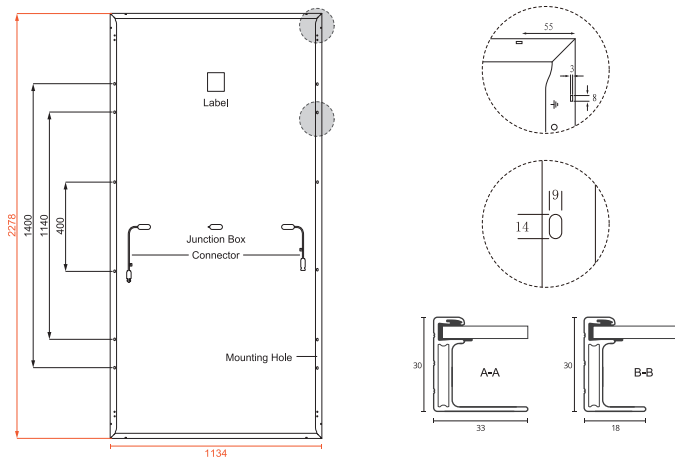


LECO laser assisted sintering technology,  
reduces contact resistance and improves efficiency by 0.2% -0.5%

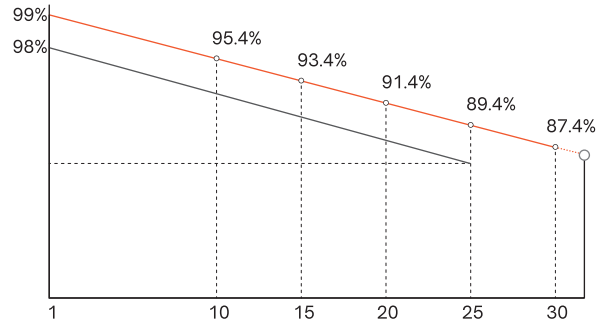


# DHN-72X16 575~590W

## 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	4.0mm <sup>2</sup> , 300/200mm in length, (Including connector) 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			
	575	580	585	590
Maximum Power (P <sub>max</sub> /W)	575	580	585	590
Open-circuit Voltage (V <sub>oc</sub> /V)	51.2	51.4	51.6	51.8
Maximum Power Voltage (V <sub>mp</sub> /V)	43.4	43.6	43.8	44.0
Short-circuit Current (I <sub>sc</sub> /A)	14.08	14.14	14.20	14.26
Maximum Power Current (I <sub>mp</sub> /A)	13.25	13.30	13.36	13.41
Module Efficiency (%)	22.26	22.45	22.65	22.84

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
Open-circuit Voltage (V <sub>oc</sub> /V)	48.6	48.8	49.0	49.2
Maximum Power Voltage (V <sub>mp</sub> /V)	41.2	41.4	41.6	41.8
Short-circuit Current (I <sub>sc</sub> /A)	11.37	11.42	11.46	11.51
Maximum Power Current (I <sub>mp</sub> /A)	10.49	10.53	10.57	10.61

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