

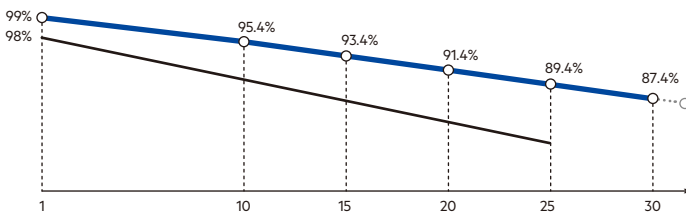
DHN-72X16/FS
590W

Full Screen

No Dust and Dirt on the Surface Increases Power Generation

Quality Guarantee

15-year Material & technology warranty
30-year Linear power output warranty



▲ DAH Solar linear power output guarantee
▾ Standard linear power output guarantee

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



Global Patented Full Screen Technology,
no dust or snow accumulation, increase power generation by 6-15%



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

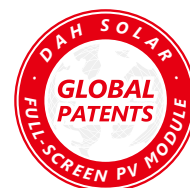


Lower temperature coefficient, better high-temperature resistance,
reduced power loss, and better high-temperature resistance



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

DHN-72X16/FS-590W



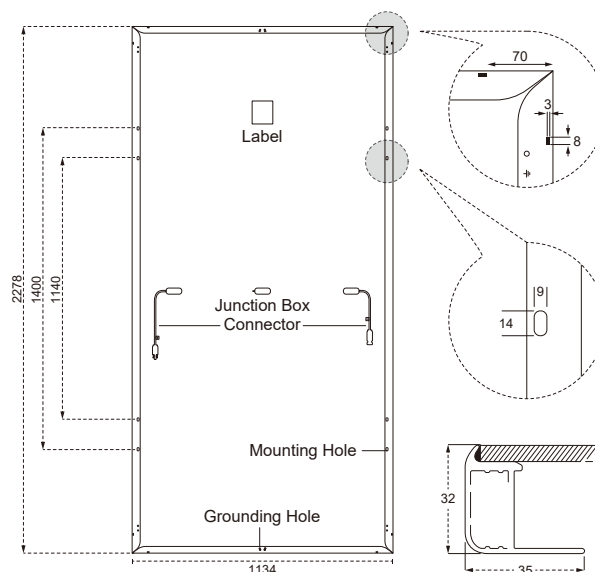
Mechanical Specification

Cable	4.0mm ² , 300/200mm in length, (Including connector) length can be customized
No.of Cells	144 (6×24)
Glass	3.2mm High Transmission, Antireflection Coating
Junction box	IP68, 3 Bypass Diodes
Connector	PV5e, Changshu Friends Connector Technology Co.,Ltd Customized Connectors
Weight	26.9kg
Cells Type	N-type 182×91mm
Dimension (L×W×T)	2278×1134×32mm
Packing	34pcs/Pallet, 680pcs/40HQ

Operating Parameters

Maximum system voltage	1500V DC
Operating Temperature	-40 ~ +85°C
Maximum series fuse rating	25A
Snow load, frontside/Wind load, backside	5400Pa/2400Pa
Nominal operating cell temperature	45°C±2°C
Application level	Class A
Fire class	Class C
Power sorting tolerance	0 ~ 5W

Design



STC — Electrical Characteristics

Module Type	DHN-72X16/FS-590W
Maximum Power (Pmax/W)	590
Open-circuit Voltage (Voc/V)	51.8
Maximum Power Voltage (Vmp/V)	44.0
Short-circuit Current (Isc/A)	14.26
Maximum Power Current (Imp/A)	13.41
Module Efficiency (%)	22.84

Power Tolerance: 0~+5W, Temperature Coefficient of Isc: 0.046%/°C, Temperature Coefficient of Voc: -0.25%/°C, Temperature Coefficient of Pmax: -0.29%/°C

Standard Test Environment : Irradiance 1000W/m², Cell temperature 25°C, Spectrum AM1.5

Tolerance: Pmax=±3%, Voc=±3%, Isc=±3%

NOCT — Electrical Characteristics

Maximum Power (Pmax/W)	444
Open-circuit Voltage (Voc/V)	49.2
Maximum Power Voltage (Vmp/V)	41.8
Short-circuit Current (Isc/A)	11.51
Maximum Power Current (Imp/A)	10.61

Standard Test Environment : Irradiance 800W/m², Ambient temperature 20°C, Spectrum AM1.5, Wind speed 1m/s

I-V Curve

