


DHN-54X16/DG(BB) 430~435W

High Efficiency Double 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

 Material & technology warranty

 Linear power output warranty



TOPCon cells double-sided rate up to 85% and more back power generation by 5-25%



Double-glass Technology, higher encapsulation blocking and mechanical strength



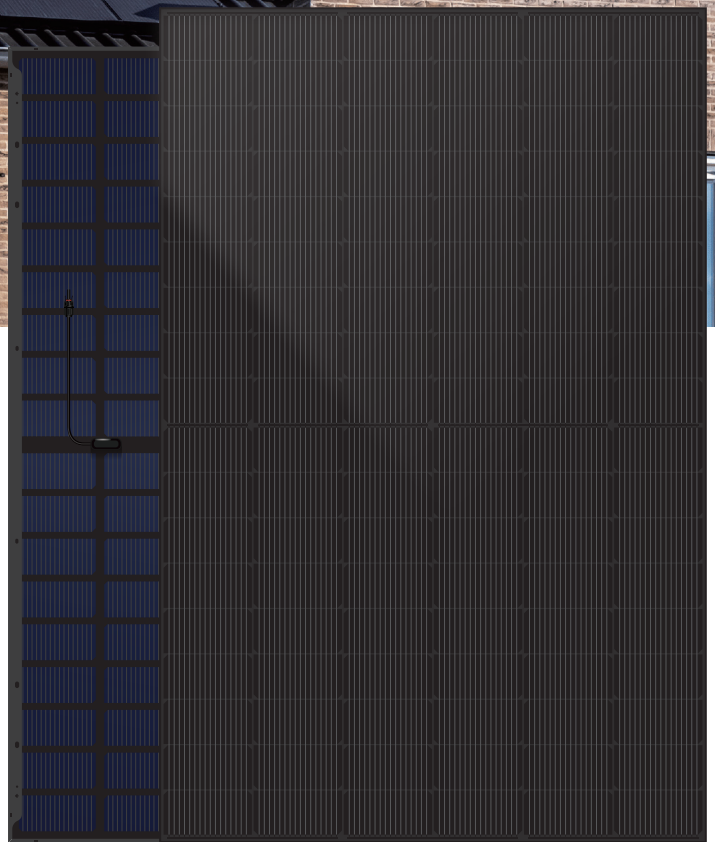
Higher performance in anti hidden cracking, acid and alkali, salt spray, water vapor, UV, PID



TOPCon cells, lower attenuation, better temperature coefficient & dim light performance

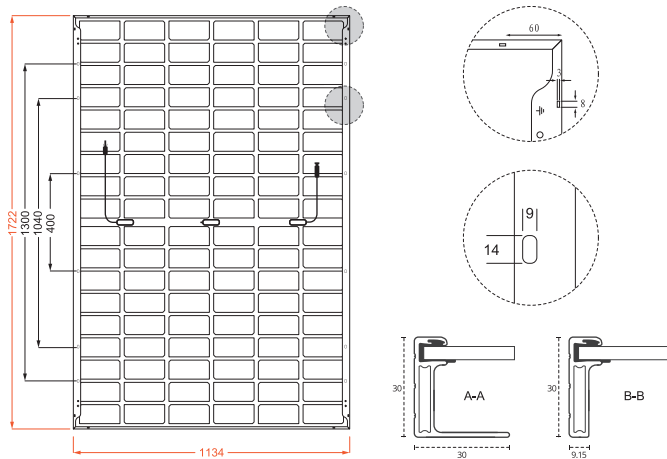


LECO laser assisted sintering technology, reduces contact resistance and improves efficiency by 0.2% -0.5%

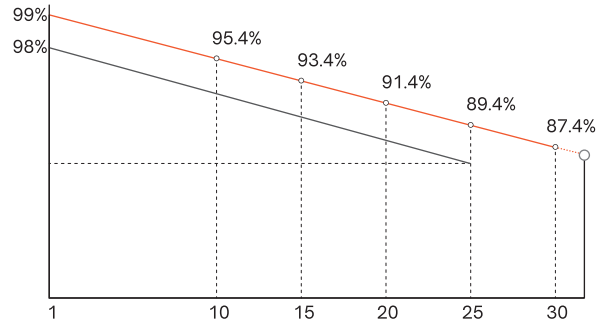


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Design



30-Year Linear Power Output Warranty



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

Mechanical Specification

| | |
|-------------------|---------------------------|
| No. of Cells | 108 (6×18) |
| Weight | 23.5kg |
| Cells Type | N-type 182×91mm |
| Dimension (L×W×T) | 1722×1134×30mm |
| Packing | 36pcs/Pallet, 936pcs/40HQ |

| | |
|--------------|---------------------------------------------------------------------------------------------|
| Cable | 4.0mm ² , 300/200mm in length, (Including connector) length can be customized |
| Glass | 2.0mm High Transmission, Antireflection Coating |
| Junction Box | IP68, 3 Bypass Diodes |
| Connector | MC4 Compatible |

Electrical Characteristics

| Module Type | DHN-54X16/DG(BB) | | | |
|-------------------------------|------------------|-------|--------|-------|
| | STC | NOCT | STC | NOCT |
| Test conditions | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax/W) | 430 | 323 | 435 | 327 |
| Open-circuit Voltage (Voc/V) | 38.0 | 36.10 | 38.2 | 36.29 |
| Maximum Power Voltage (Vmp/V) | 32.5 | 30.88 | 32.7 | 31.07 |
| Short-circuit Current (Isc/A) | 13.84 | 11.17 | 13.90 | 11.22 |
| Maximum Power Current (Imp/A) | 13.23 | 10.47 | 13.30 | 10.53 |
| Module Efficiency (STC) | 22.02% | | 22.28% | |
| Refer Bifacial Factor | 80±5% | | | |

STC-Standard Test Environment: Irradiance 1000W/m², Cell temperature 25°C, Spectrum AM1.5
NOCT-Standard Test Environment: Irradiance 800W/m², Ambient temperature 20°C, Spectrum AM1.5, Wind speed 1m/s

Double-Sided Power Generation Parameters (Rear gain)

| | | | |
|-----|-----------------------|-------|-------|
| 5% | Maximum Power (Pmax) | 452 | 457 |
| | Module Efficiency (%) | 23.12 | 23.39 |
| 15% | Maximum Power (Pmax) | 495 | 500 |
| | Module Efficiency (%) | 25.32 | 25.62 |
| 25% | Maximum Power (Pmax) | 538 | 544 |
| | Module Efficiency (%) | 27.53 | 27.85 |

Operating Parameters

| | |
|------------------------------------|-------------|
| Maximum System Voltage | 1500V DC |
| Operating Temperature | -40 ~ +85°C |
| Maximum Series Fuse Rating | 30A |
| Nominal Operating Cell Temperature | 45°C±2°C |
| Application Level | Class A |

Temperature Coefficient

| | |
|--------------------------------------------|---------------|
| Temperature Coefficient of Isc (ΔIsc) | 0.046%/°C |
| Temperature Coefficient of Voc (βVoc) | -0.25%/°C |
| Temperature Coefficient of Pmax (γPmp) | -0.29%/°C |
| Snow load, frontside / Wind load, backside | 5400Pa/2400Pa |