


DHN-78X16/DG 620~640W

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

 15 Material & technology warranty

 30 Linear power output warranty



Bifacial Rate Up to 85% and More Back Power Generation by 5-25%



Double-glass Technology, higher encapsulation blocking and mechanical strength



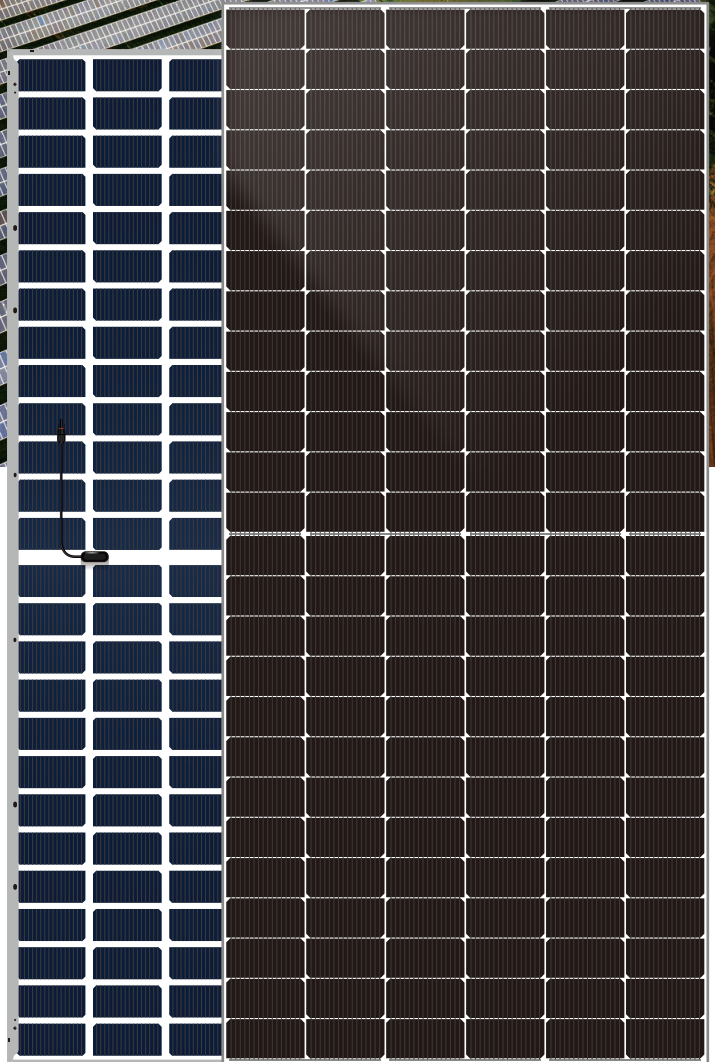
Higher performance in anti hidden cracking, acid and alkali, salt spray, water vapor, UV, PID



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

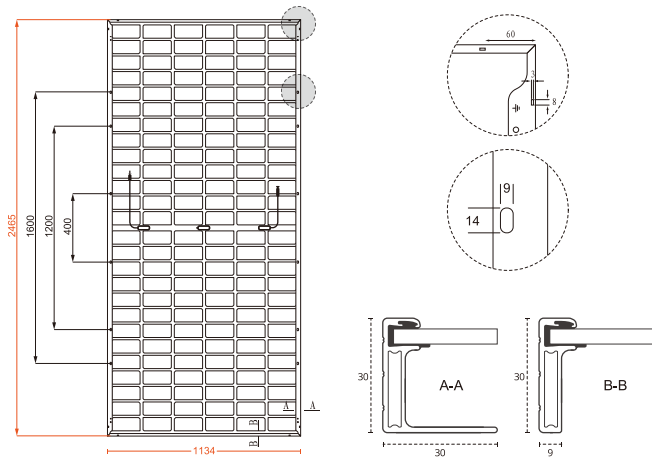


LECO laser assisted sintering technology, reduces contact resistance and improves efficiency by 0.2% -0.5%



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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 | 156 (6×26) |
| Weight | 34.2kg |
| Cells Type | N-type 182×91mm |
| Dimension (L×W×T) | 2465×1134×30mm |
| Packing | 36pcs/Pallet, 576pcs/40HQ |

| | |
|----------------------------|--|
| Cable(Including connector) | 4.0mm ² , 300/200mm in length, 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-78X16/DG | | | | | | | | | | | |
|--|--------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| | STC | | NOCT | | STC | | NOCT | | STC | | NOCT | |
| Test conditions | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (P _{max} /W) | 620 | 466 | 625 | 470 | 630 | 474 | 635 | 478 | 640 | 481 | 640 | 481 |
| Open-circuit Voltage (V _{oc} /V) | 55.6 | 52.8 | 55.8 | 53.0 | 56.0 | 53.2 | 56.2 | 53.4 | 56.4 | 53.6 | 56.4 | 53.6 |
| Maximum Power Voltage (V _{mp} /V) | 46.8 | 44.5 | 47.0 | 44.7 | 47.2 | 44.8 | 47.4 | 45.0 | 47.6 | 45.2 | 47.6 | 45.2 |
| Short-circuit Current (I _{sc} /A) | 14.08 | 11.37 | 14.14 | 11.42 | 14.20 | 11.46 | 14.26 | 11.51 | 14.32 | 11.56 | 14.32 | 11.56 |
| Maximum Power Current (I _{mp} /A) | 13.25 | 10.49 | 13.30 | 10.53 | 13.35 | 10.57 | 13.40 | 10.60 | 13.45 | 10.64 | 13.45 | 10.64 |
| Module Efficiency (STC) | 22.18% | | 22.36% | | 22.54% | | 22.72% | | 22.90% | | 22.90% | |
| 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 (P _{max}) | 651 | 656.25 | 661.5 | 666.75 | 672 |
| | Module Efficiency (%) | 23.29 | 23.48 | 23.66 | 23.85 | 24.04 |
| 15% | Maximum Power (P _{max}) | 713 | 719 | 725 | 730 | 736 |
| | Module Efficiency (%) | 25.51 | 25.71 | 25.92 | 26.12 | 26.33 |
| 25% | Maximum Power (P _{max}) | 775 | 781 | 788 | 794 | 800 |
| | Module Efficiency (%) | 27.73 | 27.95 | 28.17 | 28.40 | 28.62 |

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 I _{sc} (ΔI _{sc}) | 0.046%/°C |
| Temperature Coefficient of V _{oc} (ΔV _{oc}) | -0.25%/°C |
| Temperature Coefficient of P _{max} (ΔP _{mp}) | -0.29%/°C |

| | |
|--|---------------|
| Snow load, frontside / Wind load, backside | 5400Pa/2400Pa |
|--|---------------|