

Applicable to Curved Roofs

440-460w Meteor Module Series

N-Type HIGH EFFICIENCY 96-16BB-W-W

Bloomberg NEW ENERGY FINANCE **Tier1** **TOP PERFORMER 2024** **kiwa** PV MODULE RELIABILITY SCORECARD

Ultra-light
35% weight reduction

Microcracks Resistance
Minimized risk of microcrack and snail trail

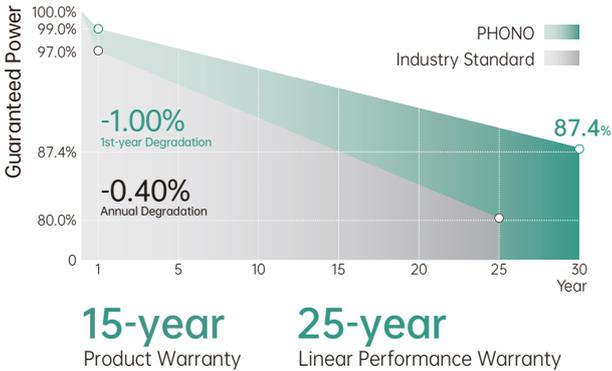
Anti-aging
Without attenuation of module color and light transmittance, ensuring system reliability

Stable Investment Returns
Reliable design and excellent performance ensure stable investment returns

Easy to Clean
Flat surface design, less dust accumulation

Trustworthy Quality and Reliability

- Optimized electrical design lowers hot spot risk and operating current
- The rigidity of the module makes it safer to transport



MANAGEMENT SYSTEM CERTIFICATES

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



Electrical Typical Values

| Model | 1000V | PS440L8-16/QMH | | PS445L8-16/QMH | | PS450L8-16/QMH | | PS455L8-16/QMH | | PS460L8-16/QMH | |
|-----------------------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|--|
| | 1500V | PS440L8H-16/QMH | | PS445L8H-16/QMH | | PS450L8H-16/QMH | | PS455L8H-16/QMH | | PS460L8H-16/QMH | |
| Testing Condition | STC | NOCT | |
| Rated Power (Pmpp) | 440 | 337 | 445 | 341 | 450 | 345 | 455 | 348 | 460 | 352 | |
| Rated Current (Impp) | 14.89 | 12.00 | 14.92 | 12.02 | 14.95 | 12.04 | 14.98 | 12.07 | 15.01 | 12.09 | |
| Rated Voltage (Vmpp) | 29.55 | 28.08 | 29.83 | 28.37 | 30.10 | 28.65 | 30.37 | 28.83 | 30.65 | 29.11 | |
| Short Circuit Current (Isc) | 15.56 | 12.54 | 15.60 | 12.57 | 15.64 | 12.60 | 15.68 | 12.63 | 15.72 | 12.66 | |
| Open Circuit Voltage (Voc) | 35.13 | 33.63 | 35.44 | 33.95 | 35.74 | 34.27 | 36.05 | 34.48 | 36.35 | 34.80 | |
| Module Efficiency (%) | 22.02 | | 22.27 | | 22.52 | | 22.77 | | 23.02 | | |

STC (Standard Testing Conditions): Irradiance 1000W/m², AM 1.5, Cell Temperature 25°C

NOCT (Nominal Operation Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s

Mechanical Characteristics

| | |
|-----------------------------|---|
| Cell Type | N Type Monocrystalline |
| Dimension (L × W × H) | Length: 1762mm (69.37 inch) Width: 1134mm (44.65 inch) Height: 26mm (1.02 inch) |
| Weight | 13.7kg (30.15 lbs) |
| Frame | Anodized Aluminium Alloy |
| Cable (Including Connector) | 4mm ² (IEC), (+): 350mm,(-): 250mm or Customized Length |
| Junction Box | IP 68 Rated |

Temperature Ratings

| | |
|---------------------------------|-----------|
| Voltage Temperature Coefficient | -0.25%/°C |
| Current Temperature Coefficient | +0.04%/°C |
| Power Temperature Coefficient | -0.29%/°C |
| Power Tolerance | 0~+3% |
| NOCT | 42±2°C |

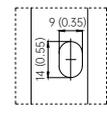
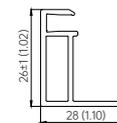
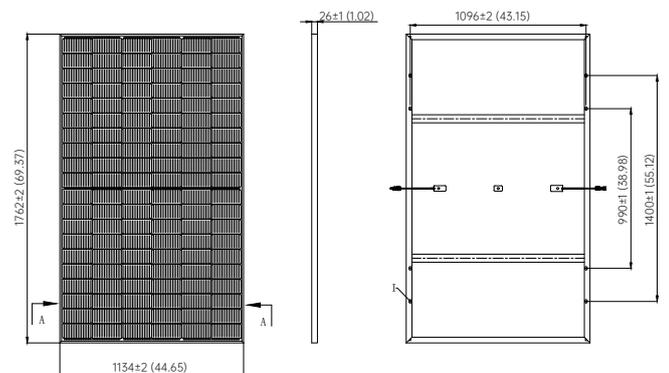
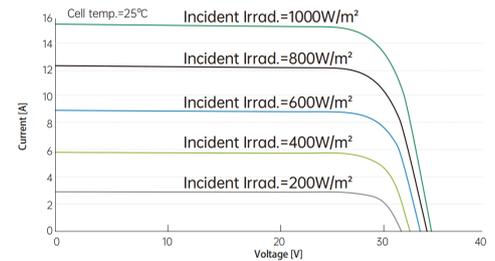
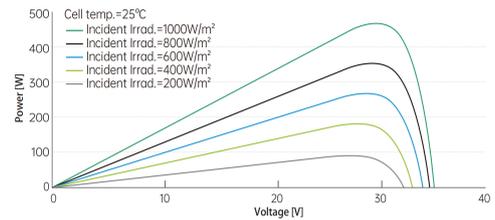
Absolute Maximum Rating

| | |
|-----------------------------------|--------------------|
| Operating Temperature | From -40 to + 85°C |
| Hail Diameter @ 80km/h | Up to 25mm |
| Front Side Maximum Static Loading | 2400Pa |
| Maximum Series Fuse Rating | 30A |
| PV Module Classification | II |
| Fire Rating (IEC61730) | C |
| Maximum System Voltage | DC 1000V/1500V |

Packing Configuration

| | |
|-------------------|-------|
| Container | 40'HQ |
| Pieces/Container | 1066 |
| Pcs/Pallet | 41 |
| Pallets/Container | 26 |

Electrical Characteristics



Note:mm (inch)