

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

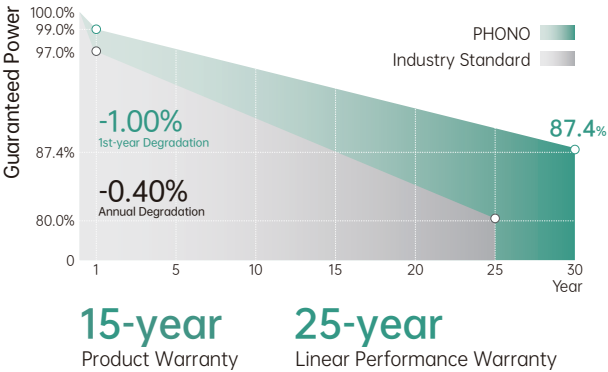
**Anti-aging**  
Without attenuation of module color and light transmittance, ensuring system reliability

**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	STC	NOCT	STC	NOCT	STC	NOCT	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/m<sup>2</sup>, AM 1.5, Cell Temperature 25°C

NOCT (Nominal Operation Cell Temperature): Irradiance 800W/m<sup>2</sup>, 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: 25mm (0.98 inch)
Weight	13.7kg (30.15 lbs)
Frame	Anodized Aluminium Alloy
Cable (Including Connector)	4mm <sup>2</sup> (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

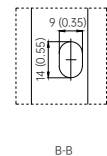
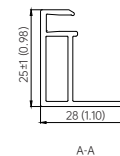
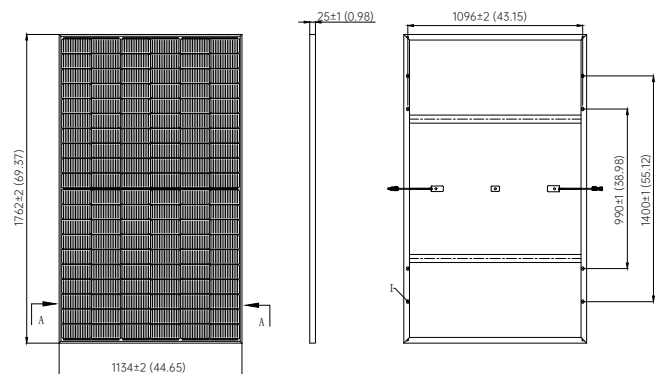
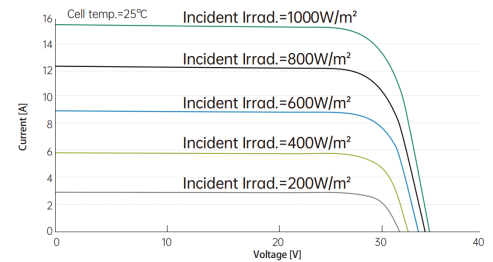
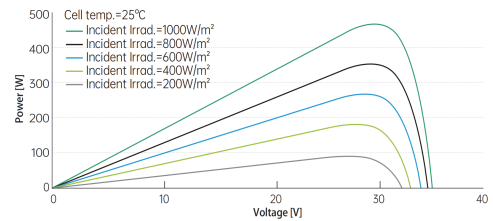
## Absolute Maximum Rating

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)