

425-445W

Draco Module Series

N-TOPCON HIGH EFFICIENCY MONO 108-16BB-W-WG

Bloomberg
NEW ENERGY FINANCE

Tier1



Light Weight Makes It Easier to Transport and Install

Extraordinary Product Performance

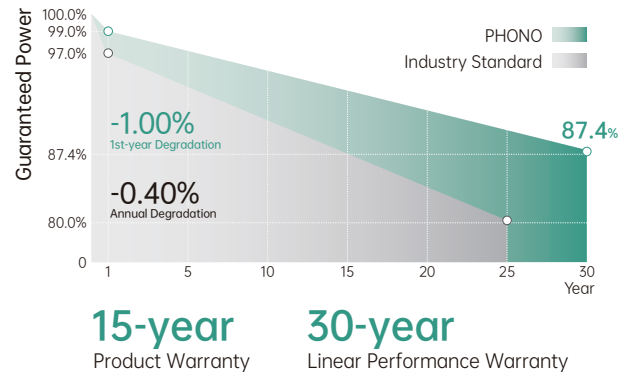
- Up to 30% additional power yield benefited from bifacial technology and up over 80% cell bifaciality
- Competitive high-temperature performance with ameliorated temperature coefficient
- Better weak illumination response, higher power generation with N-TOPCon technology

High Quality Reliability

- N-type with lower LID and LeTID
- Industry-leading cell processing technology and dual glass contributes to excellent anti-PID characteristic
- First-year degradation is less than 1.0%, with linear degradation of 0.4% per year for 30 years

Wider Application Conditions

- BIPV, vertical installation, snowfield, high-humid area, windy and dusty area



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	PS425M8GF-18/VNH		PS430M8GF-18/VNH		PS435M8GF-18/VNH		PS440M8GF-18/VNH		PS445M8GF-18/VNH	
	1500V	PS425M8GFH-18/VNH		PS430M8GFH-18/VNH		PS435M8GFH-18/VNH		PS440M8GFH-18/VNH		PS445M8GFH-18/VNH	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	
Rated Power (Pmpp)	425	325	430	329	435	333	440	337	445	341	
Rated Current (Imp)	13.24	10.66	13.30	10.71	13.36	10.76	13.42	10.81	13.48	10.86	
Rated Voltage (Vmpp)	32.10	30.52	32.34	30.74	32.56	30.95	32.79	31.17	33.02	31.38	
Short Circuit Current (Isc)	13.89	11.19	13.95	11.24	14.04	11.31	14.11	11.36	14.18	11.42	
Open Circuit Voltage (Voc)	38.73	37.08	39.03	37.37	39.32	37.65	39.61	37.93	39.90	38.20	
Module Efficiency (%)	21.76		22.02		22.28		22.53		22.79		

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

BNPI**

Maximum Power (Pmax)	468	474	479	485	490
Optimum Operating Current (Imp)	14.58	14.66	14.72	14.80	14.84
Optimum Operating Voltage (Vmpp)	32.10	32.34	32.56	32.79	33.02
Short Circuit Current (Isc)	15.37	15.45	15.50	15.58	15.62
Open Circuit Voltage (Voc)	38.73	39.03	39.32	39.61	39.90

**BNPI: Front Side Irradiation 1000W/m², Back Side Reflection Irradiation 135W/m², AM 1.5, Ambient Temperature 25°C

Mechanical Characteristics

Cell Type	N Type Monocrystalline
Dimension (L × W × H)	Length: 1722mm (67.80 inch) Width: 1134mm (44.65 inch) Height: 30mm (1.18 inch)
Weight	21.0kg (46.30 lbs)
Glass	1.6mm/1.6mm Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Cable (Including Connector)	4mm ² (IEC), (+): 450mm, (-): 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
Bifaciality	80±5%

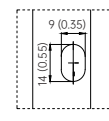
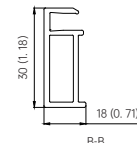
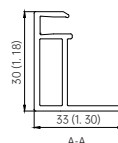
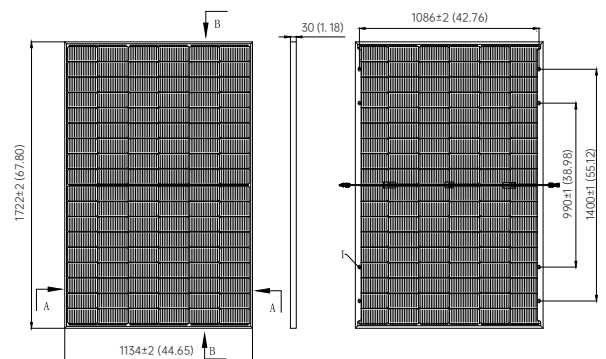
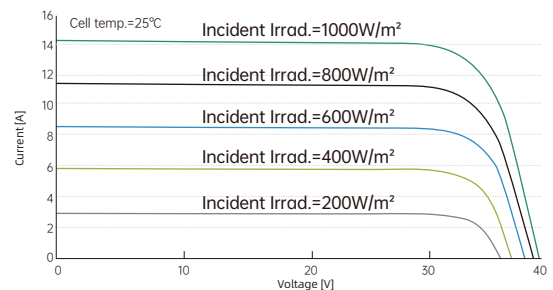
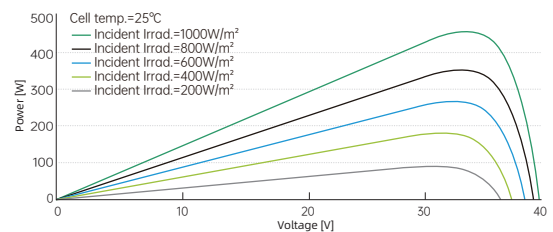
Absolute Maximum Rating

Operating Temperature	From -40 to + 85°C
Hail Diameter @ 80km/h	Up to 25mm
Front Side Maximum Static Loading	5400Pa
Rear 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	20' GP	40' HQ
Pieces/Container	216	936
Pcs/Pallet	36	36
Pallets/Container	6	26

Electrical Characteristics



Note:mm (inch)