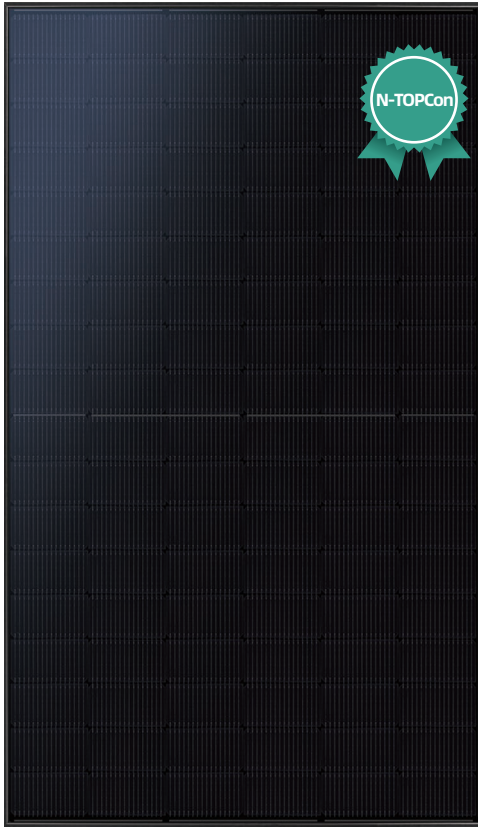




490-510w

Draco Module Series

N-TOPCON HIGH EFFICIENCY 108-16BB-B-BG

Bloomberg
NEW ENERGY FINANCE

Tier1



Aesthetic Design in All Black

Product Characteristics

- Optimized cell size brings higher power and Lower transportation costs

Extraordinary Product Performance

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

Higher Quality Reliability

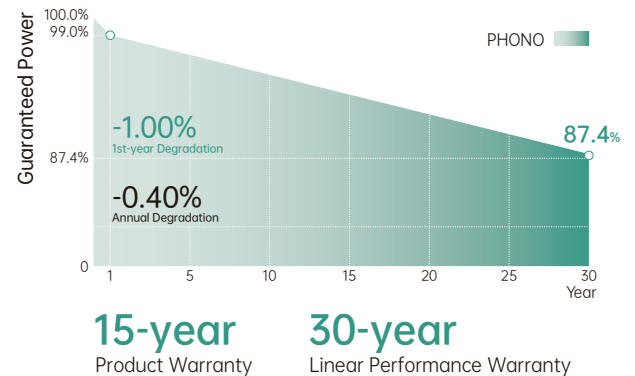
- Industry-leading cell processing technology and dual glass contributes to excellent anti-PID characteristic

Shorter Payback Time

- Lower BoS cost ensure a better LCOE

Wider Application Conditions

- BIPV, vertical installation, snowfield, high-humidity area, windy and dusty area
- Easy for integration, designed for compatibility with existing mainstream inverters and diverse mounting systems



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	PS490L8GF-18/VNH		PS495L8GF-18/VNH		PS500L8GF-18/VNH		PS505L8GF-18/VNH		PS510L8GF-18/VNH	
	1500V	PS490L8GFH-18/VNH		PS495L8GFH-18/VNH		PS500L8GFH-18/VNH		PS505L8GFH-18/VNH		PS510L8GFH-18/VNH	
Testing Condition		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated Power (Pmpp)		490	375	495	379	500	383	505	387	510	391
Rated Current (Imp)		14.83	11.94	14.86	11.97	14.89	11.99	14.92	12.02	14.95	12.04
Rated Voltage (Vmpp)		33.05	31.41	33.32	31.67	33.58	31.92	33.85	32.18	34.12	32.43
Short Circuit Current (Isc)		15.48	12.47	15.52	12.50	15.56	12.53	15.60	12.56	15.64	12.60
Open Circuit Voltage (Voc)		39.33	37.66	39.63	37.95	39.91	38.21	40.21	38.50	40.51	38.79
Module Efficiency (%)		22.03		22.26		22.48		22.71		22.93	

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)	540	545	551	556	562
Optimum Operating Current (Imp)	16.33	16.37	16.40	16.43	16.47
Optimum Operating Voltage (Vmpp)	33.05	33.32	33.58	33.85	34.12
Short Circuit Current (Isc)	17.05	17.08	17.15	17.17	17.23
Open Circuit Voltage (Voc)	39.33	39.63	39.91	40.21	40.51

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: 1961mm (77.21 inch) Width: 1134mm (44.65 inch) Height: 30mm (1.18 inch)
Weight	27.5kg (60.63 lbs)
Glass	2.0mm/2.0mm Heat Strengthened Glass
Frame	Black Anodized Aluminium Alloy
Cable (Including Connector)	4mm ² (IEC), (+): 1300mm, (-): 1300mm 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%

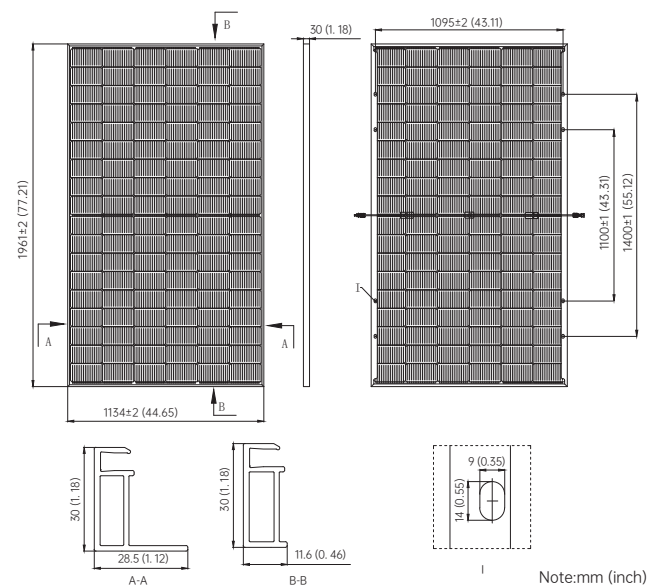
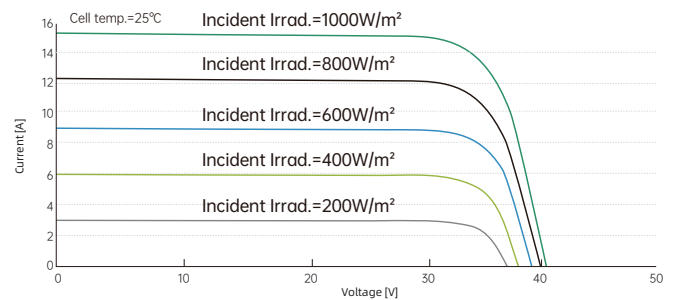
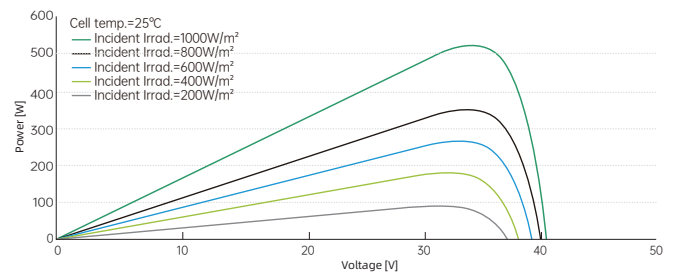
Absolute Maximum Rating

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	40' HQ
Pcs/Container	864
Pcs/Pallet	36
Pallets/Container	24

Electrical Characteristics



Note:mm (inch)



PHONO SOLAR TECHNOLOGY CO., LTD. reserves the right to make necessary adjustments to the information described herein at any time without further notice. The specifications and certificates contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. Please be sure to use the most recent version of data.