

435-455W

Draco Module Series

N-TOPCON HIGH EFFICIENCY 96-16BB-B-BG

Aesthetic Design in All Black Product Characteristics

- Optimized cell size brings higher power and Lower transportation costs

Extraordinary Product Performance

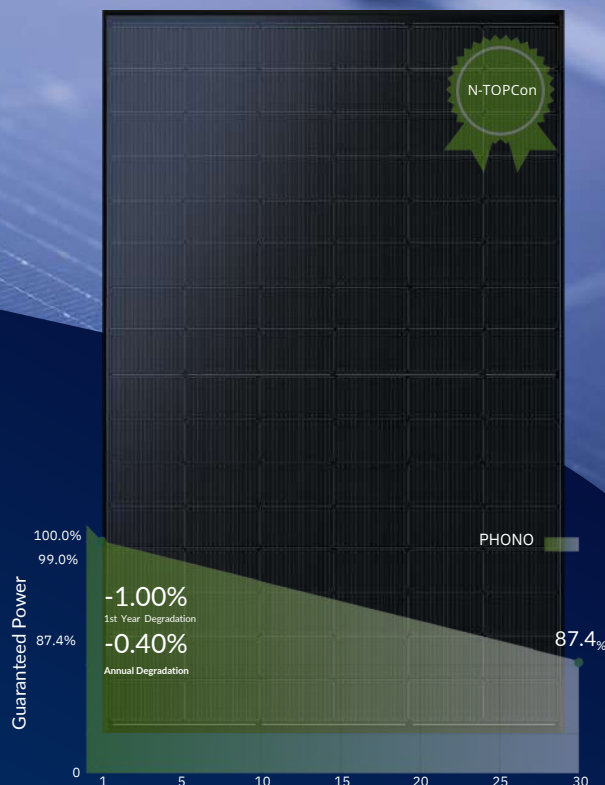
- N-type with lower LID and LeTID
- Up to 30% additional power yield benefited from bifacial technology and over 80% cell bifaciality
- Competitive high-temperature performance with ameliorated temperature coefficient
- Better weak illumination response, higher power generation with N-TOPCon technology

High Quality Reliability

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

Wider Application Conditions

- Universal solution for residential and C&I rooftops
- 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



25-year*

30-year

Linear Performance Warranty

The 25-year product warranty is offered as an extended warranty. Please contact your local sales representative for details

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	PS435L8GF-16/QNH	PS440L8GF-16/QNH	PS445L8GF-16/QNH	PS450L8GF-16/QNH	PS455L8GF-16/QNH
Model	1500V	PS435L8GFH-16/QNH	PS440L8GFH-16/QNH	PS445L8GFH-16/QNH	PS450L8GFH-16/QNH	PS455L8GFH-16/QNH
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT
Rated Power (P _{mp}) Rated	435	333	440	337	445	341
Current (I _{mp}) Rated Voltage	14.84	11.95	14.87	11.98	14.90	12.00
(V _{mp}) Short Circuit Current	29.32	27.87	29.59	28.13	29.87	28.39
(I _{sc}) Open Circuit Voltage	15.50	12.48	15.54	12.52	15.58	12.55
(V _{oc}) Module Efficiency (%)	34.87	33.39	35.17	33.68	35.48	33.97
	21.77		22.02		22.27	
					22.52	
						22.77

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 (P _{max})	479	485	490	496	501
Optimum Operating Current (I _{mp})	16.34	16.38	16.41	16.44	16.48
Optimum Operating Voltage (V _{mp})	29.32	29.59	29.87	30.15	30.42
Short Circuit Current (I _{sc})	17.06	17.13	17.15	17.21	17.24
Open Circuit Voltage (V _{oc})	34.87	35.87	35.48	35.79	36.09

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

Mechanical Characteristics

Cell Type	NType Monocrystalline
Dimension (L × W × H)	Length: 1762mm (69.37 inch) Width: 1134mm (44.65 inch) Height: 30mm (1.18 inch)
Weight	24.5kg (54.01 lbs)
Glass	2.0mm/2.0mm Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Cable (Including Connector)	4mm ² (IEC), 1100mm or Customized Length
Junction Box	IP 68 Rated

Temperature Ratings

Voltage Temperature Coefficient Current	-0.25%/°C
Temperature Coefficient	+0.04%/°C
Power Temperature Coefficient	-0.29%/°C
Power Tolerance	0~+3%
NOCT	42±2°C
Bifaciality	80±5%

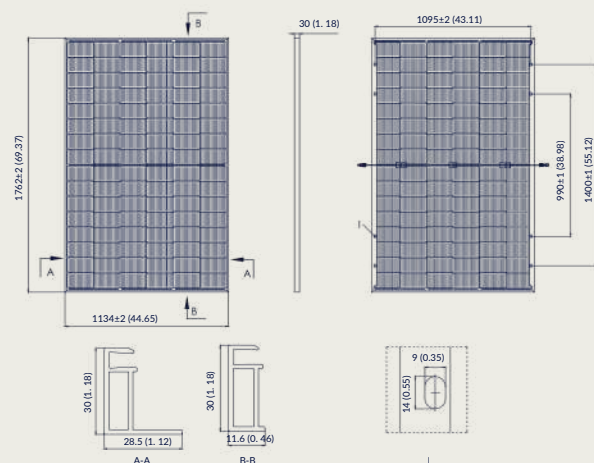
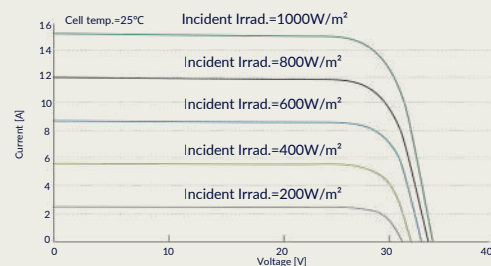
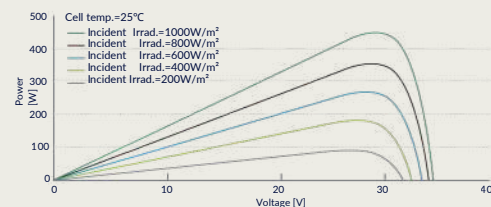
Absolute Maximum Rating

Operating Temperature	From -40 to + 85°C
Hail Diameter @ 80km/h	Up to 25mm
Front Side Maximum Static Loading Rear Side	5400Pa
Maximum Static Loading Maximum Series	2400Pa
Fuse Rating	30A
PV Module Classification	II
Fire Rating (IEC61730)	C
Maximum System Voltage	DC 1000V/1500V

Packing Configuration

Container	40' HQ
Pcs/Container	936
Pcs/Pallet	36
Pallets/Container	26

Electrical Characteristics



Note:mm (inch)

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