



580-600w Draco Module Series

N-Type HIGH EFFICIENCY 144-16BB-W-WG

Bloomberg
NEW ENERGY FINANCE

Tier1



Extraordinary Product Performance

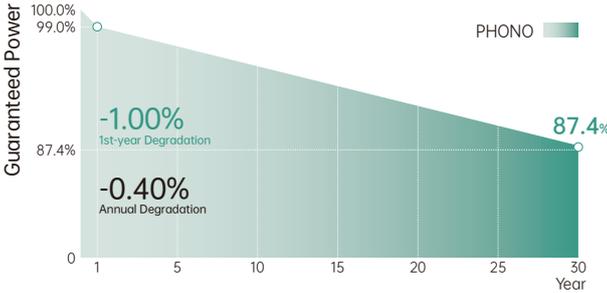
- Up to 30% additional power yield benefited from bifacial technology and up over 80% cell bifaciality
- Competitive high-temperature performance with ameliorated temperature coefficient
- Better weak illumination response, higher power generation with N-Type technology

Higher 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
- Safer and easier handling during transportation and installation



15-year
Product Warranty

30-year
Linear Performance Warranty

MANAGEMENT SYSTEM CERTIFICATES

- IEC 61215, IEC 61730, UL 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	PS580M8GFH-24/TNH		PS585M8GFH-24/TNH		PS590M8GFH-24/TNH		PS595M8GFH-24/TNH		PS600M8GFH-24/TNH	
	STC	NOCT								
Testing Condition	STC	NOCT								
Rated Power (Pmpp)	580	444	585	448	590	452	595	456	600	459
Rated Current (Impp)	13.42	10.81	13.48	10.86	13.54	10.91	13.60	10.95	13.66	11.00
Rated Voltage (Vmpp)	43.22	41.09	43.40	41.26	43.58	41.43	43.75	41.59	43.93	41.76
Short Circuit Current (Isc)	14.11	11.36	14.18	11.42	14.25	11.48	14.32	11.53	14.39	11.59
Open Circuit Voltage (Voc)	52.20	49.98	52.44	50.21	52.68	50.44	52.92	50.67	53.05	50.80
Module Efficiency (%)	22.45		22.65		22.84		23.03		23.23	

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)	639	644	650	655	661
Optimum Operating Current (Impp)	14.79	14.84	14.92	14.98	15.05
Optimum Operating Voltage (Vmpp)	43.22	43.40	43.58	43.75	43.93
Short Circuit Current (Isc)	15.57	15.62	15.70	15.75	15.85
Open Circuit Voltage (Voc)	52.20	52.44	52.68	52.92	53.05

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 x W x H)	Length: 2278mm (89.69 inch) Width: 1134mm (44.65 inch) Height: 30mm (1.18 inch)
Weight	32.0kg (70.55 lbs)
Glass	2.0mm/2.0mm Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Cable (Including Connector)	12AWG(UL)/4mm ² (IEC), 1350mm or Customized Length
Connector	Original Stäubli MC4
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%

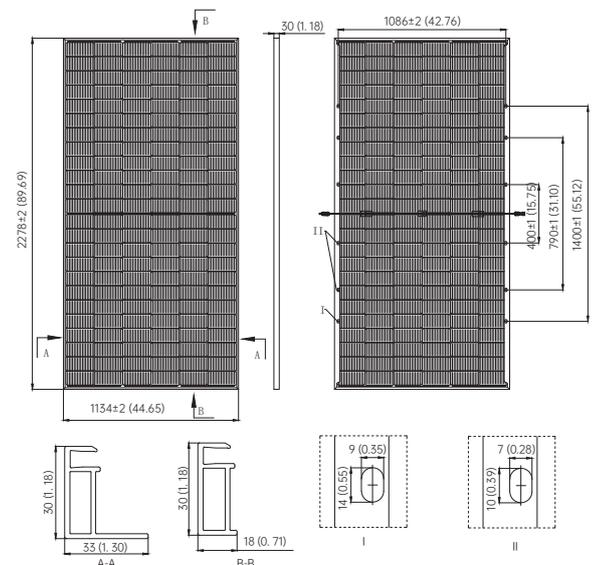
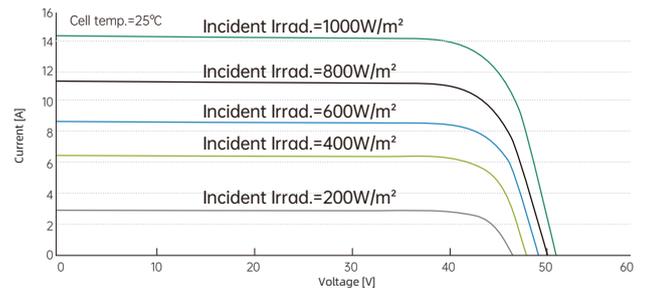
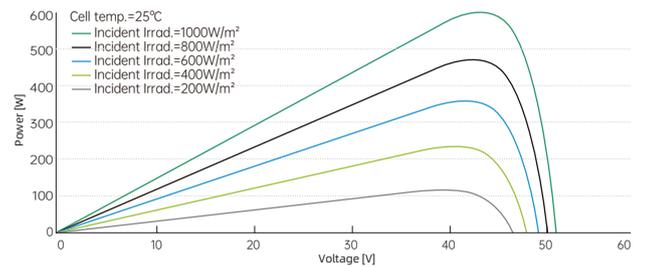
Absolute Maximum Rating

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 (UL 61730)	Type29
Maximum System Voltage	DC 1500V

Packaging Configuration

Container	20' GP	40' HQ
Pcs/Container	180	720
Pcs/Pallet	36	36
Pallets/Container	5	20

Electrical Characteristics



Note:mm (inch)