PHONO

# 580-600w

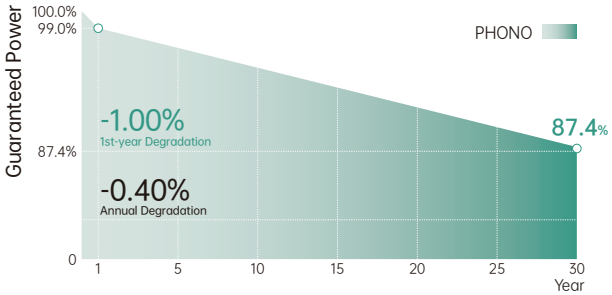
## Draco Module Series

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

Bloomberg NEW ENERGY FINANCE Tier1 TOP PERFORMER 2026 kiwa PV MODULE RELIABILITY SCORECARD

## 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




**15-year** Product Warranty

**30-year** Linear Performance Warranty

## 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-humidity area, windy and dusty area
- Safer and easier handling during transportation and installation

## 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

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## Electrical Typical Values

| Model | 1000V | PS580M8GF-24/TNH | | PS585M8GF-24/TNH | | PS590M8GF-24/TNH | | PS595M8GF-24/TNH | | PS600M8GF-24/TNH | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1500V | PS580M8GFH-24/TNH | | PS585M8GFH-24/TNH | | PS590M8GFH-24/TNH | | PS595M8GFH-24/TNH | | PS600M8GFH-24/TNH | |
| Testing Condition | | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | 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 × W × H) | Length: 2278mm (89.69 inch)<br>Width: 1134mm (44.65 inch)<br>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) | 4mm² (IEC),<br>(+): 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 |
| Bifaciality | 80±5% |

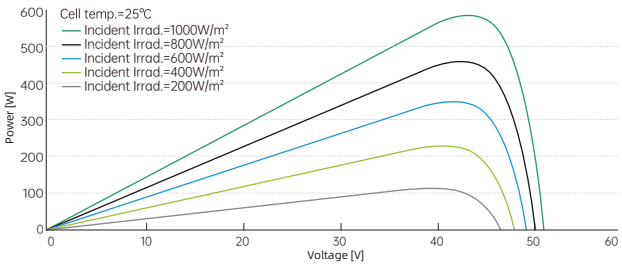
## Absolute Maximum Rating

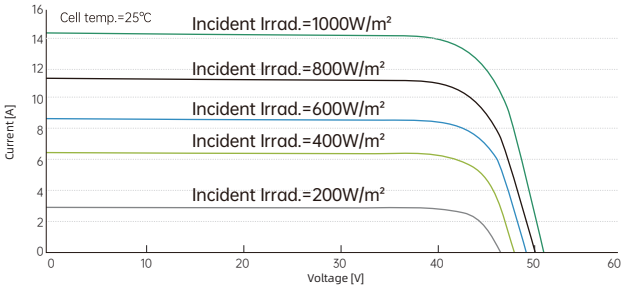
| | |
|---|---|
| Operating Temperature | From -40 to + 85°C |
| Hail Diameter @ 80km/h | Up to 25mm |
| Front Side Maximum Static Loading | 5400Pa |
| Rear Side Maximum Static Loading | 2400Pa |
| Maximum Series Fuse Rating | 30A |
| PV Module Classification | II |
| Fire Rating (IEC61730) | C |
| Maximum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

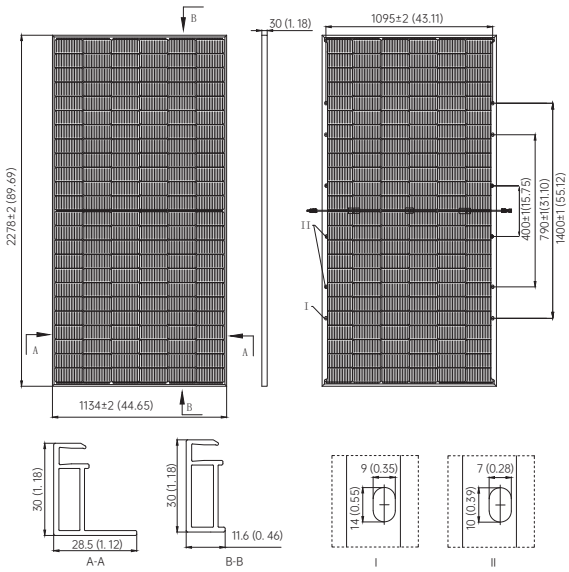
## Packing Configuration

| | | |
|---|---|---|
| Container | 20' GP | 40' HQ |
| Pcs/Container | 144 | 720 |
| Pcs/Pallet | 36 | 36 |
| Pallets/Container | 4 | 20 |

## Electrical Characteristics




Note:mm (inch)

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