



645-665w

Quasar Module Series

N-BC HIGH EFFICIENCY 144-0BB-W-WG

Bloomberg
NEW ENERGY FINANCE

Tier1



Product Characteristics

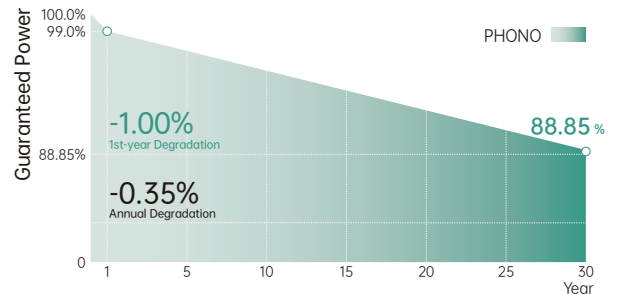
- All back contact design enhances light absorption
- Optimized cell size brings higher power and lower transportation costs

Higher Quality Reliability

- Competitive high-temperature performance with ameliorated temperature coefficient
- Optimize power generation performance under partial shading conditions

Wider Application Conditions

- Universal solution for residential and C&I
- Easy for integration, designed for compatibility with existing mainstream inverters and diverse mounting systems



15-year
Product Warranty

30-year
Linear Performance Warranty

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 | PS645L17GFH-24/TBH | | PS650L17GFH-24/TBH | | PS655L17GFH-24/TBH | | PS660L17GFH-24/TBH | | PS665L17GFH-24/TBH | |
|-----------------------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Testing Condition | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Rated Power (Pmpp) | 645 | 491 | 650 | 495 | 655 | 499 | 660 | 502 | 665 | 506 |
| Rated Current (Imp) | 14.39 | 11.53 | 14.47 | 11.59 | 14.55 | 11.66 | 14.63 | 11.71 | 14.70 | 11.78 |
| Rated Voltage (Vmpp) | 44.83 | 42.58 | 44.93 | 42.71 | 45.02 | 42.80 | 45.12 | 42.87 | 45.24 | 42.95 |
| Short Circuit Current (Isc) | 15.04 | 12.08 | 15.12 | 12.14 | 15.20 | 12.20 | 15.28 | 12.25 | 15.33 | 12.31 |
| Open Circuit Voltage (Voc) | 54.22 | 51.37 | 54.35 | 51.54 | 54.48 | 51.71 | 54.61 | 51.80 | 54.84 | 51.96 |
| Module Efficiency (%) | 23.88 | | 24.06 | | 24.25 | | 24.43 | | 24.62 | |

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

Mechanical Characteristics

| | |
|-----------------------------|---------------------------------------------------------------------------------------|
| Cell Type | N Type BC |
| Dimension (L × W × H) | Length: 2382mm (93.78 inch) Width: 1134mm (44.65 inch) Height: 30mm (1.18 inch) |
| Weight | 33.5kg (73.85 lbs) |
| Glass | 2.0mm/2.0mm Heat Strengthened Glass |
| Frame | Anodized Aluminium Alloy |
| Cable (Including Connector) | 4mm ² (IEC), (+): 400mm, (-): 200mm or Customized Length |
| Junction Box | IP 68 Rated |

Temperature Ratings

| | |
|---------------------------------|-----------|
| Voltage Temperature Coefficient | -0.20%/°C |
| Current Temperature Coefficient | +0.05%/°C |
| Power Temperature Coefficient | -0.26%/°C |
| Power Tolerance | 0~+3% |
| NOCT | 45±2°C |
| Bifaciality | 70±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 1500V |

Packing Configuration

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

Electrical Characteristics

