



700-720w Helios Module Series

N-HJT HIGH EFFICIENCY MONO M12-20B-G

Bloomberg
NEW ENERGY FINANCE

Tier1



Excellent Power Generation Performance

- 210mm wafer with SMBB cell technology
- Over 85% bifaciality and up to 30% additional power generation
- Competitive high-temperature performance with ameliorated temperature coefficient (-0.26%/°C)
- Better weak illumination response of HJT technology leads higher power generation

Consistent Reliability

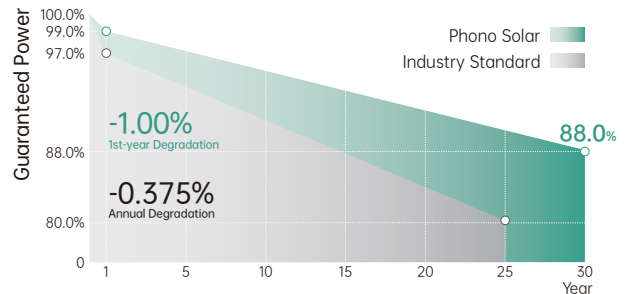
- Zero Light Induced Degradation
- Industry-leading cell technology of TCO thin film contributes to excellent anti-PID characteristic

Shorter Payback Time

- Lower BoS cost ensure a better LCOE

More Environmentally Friendly

- Low temperature welding technology & shorter manufacturing process contributes to lower carbon emissions



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 | PS700M13GFH-22/WSH | | PS705M13GFH-22/WSH | | PS710M13GFH-22/WSH | | PS715M13GFH-22/WSH | | PS720M13GFH-22/WSH | |
|-----------------------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Rated Power (Pmpp) | 700 | 532 | 705 | 536 | 710 | 540 | 715 | 544 | 720 | 548 |
| Rated Current (Imp) | 16.63 | 13.41 | 16.69 | 13.45 | 16.75 | 13.50 | 16.81 | 13.55 | 16.87 | 13.60 |
| Rated Voltage (Vmpp) | 42.10 | 39.71 | 42.25 | 39.85 | 42.39 | 39.99 | 42.54 | 40.13 | 42.68 | 40.26 |
| Short Circuit Current (Isc) | 17.43 | 14.05 | 17.49 | 14.10 | 17.55 | 14.15 | 17.61 | 14.20 | 17.67 | 14.24 |
| Open Circuit Voltage (Voc) | 50.13 | 47.84 | 50.29 | 48.00 | 50.44 | 48.14 | 50.59 | 48.28 | 50.74 | 48.43 |
| Module Efficiency (%) | 22.53 | | 22.70 | | 22.86 | | 23.02 | | 23.18 | |

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

BSTC**

| | | | | | |
|----------------------------------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax) | 770 | 775 | 780 | 785 | 790 |
| Optimum Operating Current (Imp) | 18.29 | 18.35 | 18.41 | 18.46 | 18.51 |
| Optimum Operating Voltage (Vmpp) | 42.10 | 42.25 | 42.39 | 42.54 | 42.68 |
| Short Circuit Current (Isc) | 19.17 | 19.22 | 19.28 | 19.33 | 19.39 |
| Open Circuit Voltage (Voc) | 50.13 | 50.29 | 50.44 | 50.59 | 50.74 |

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

Mechanical Characteristics

| | |
|-----------------------------|---|
| Cell Type | HJT Monocrystalline |
| Dimension (L × W × H) | Length: 2384mm (93.86 inch) |
| | Width: 1303mm (51.30 inch) |
| | Height: 35mm (1.38 inch) |
| Weight | 38.7kg (85.32 lbs) |
| Glass | 2.0mm/2.0mm toughened glass |
| Frame | Anodized Aluminium Alloy |
| Cable (Including Connector) | 4mm ² (IEC), (+): 450mm,(-): 250mm or Customized Length |
| Junction Box | IP 68 Rated |

Temperature Ratings

| | |
|---------------------------------|-----------|
| Voltage Temperature Coefficient | -0.24%/°C |
| Current Temperature Coefficient | +0.04%/°C |
| Power Temperature Coefficient | -0.26%/°C |
| Power Tolerance | 0~+3% |
| NOCT | 44±2°C |
| Bifaciality | 85±5% |

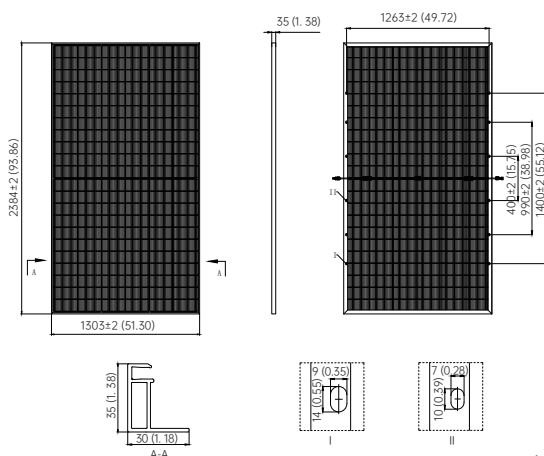
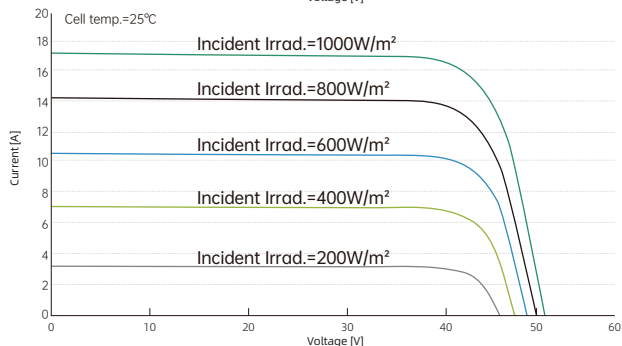
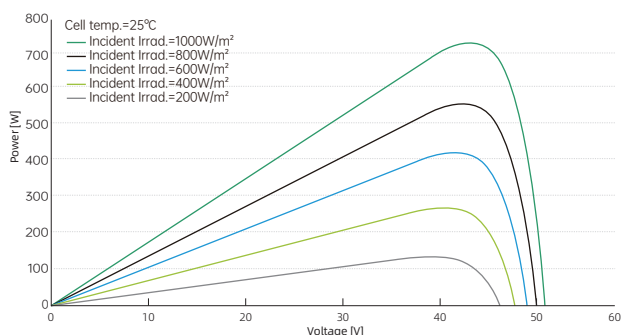
Absolute Maximum Rating

| | |
|-----------------------------------|--------------------|
| 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 (IEC 61730) | C |
| Maximum System Voltage | DC 1500V |

Packing Configuration

| | |
|-------------------|--------|
| Container | 40' HQ |
| Pieces/Container | 558 |
| Pcs/Pallet | 31 |
| Pallets/Container | 18 |

Electrical Characteristics



Note:mm (inch)