

400-420w Twinplus X Module Series

HIGH EFFICIENCY MONO-PERC M6-10B-B

Bloomberg
NEW ENERGY FINANCE

Tier1



Original Cutless Half-cell Technology In PV Module Industry

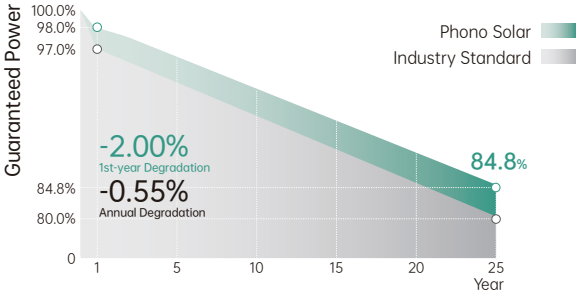
Optimized Module Appearance With Square Mono Wafer

Outstanding Product Performance

- 0.32% additional power yield benefited from square mono wafer
- Competitive high-temperature performance with ameliorated temperature coefficient
- Minimized power loss in cell connection
- Higher power generation and better performance under shading effect with multi-busbar and half-cell technology

Trustworthy Quality And Reliability

- Optimized electrical design lowers hot spot risk and operating current
- Minimized risk of microcrack by using industry-leading cutless cell processing technology
- Excellent anti-PID resistance by Nitrous Oxide passivation processing technology



12-year
Product Warranty

25-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 | 1000V | | PS400M6-18/VH | | PS405M6-18/VH | | PS410M6-18/VH | | PS415M6-18/VH | | PS420M6-18/VH | |
|-----------------------------|-------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|------|
| | 1500V | | PS400M6H-18/VH | | PS405M6H-18/VH | | PS410M6H-18/VH | | PS415M6H-18/VH | | PS420M6H-18/VH | |
| Testing Condition | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Rated Power (Pmpp) | 400 | 301 | 405 | 305 | 410 | 309 | 415 | 313 | 420 | 316 | | |
| Rated Current (Impp) | 12.97 | 10.46 | 13.06 | 10.54 | 13.15 | 10.61 | 13.24 | 10.68 | 13.33 | 10.75 | | |
| Rated Voltage (Vmpp) | 30.85 | 28.81 | 31.02 | 28.97 | 31.18 | 29.12 | 31.35 | 29.28 | 31.51 | 29.43 | | |
| Short Circuit Current (Isc) | 13.52 | 10.91 | 13.62 | 10.99 | 13.72 | 11.07 | 13.82 | 11.15 | 13.92 | 11.23 | | |
| Open Circuit Voltage (Voc) | 36.87 | 34.95 | 37.05 | 35.12 | 37.23 | 35.29 | 37.42 | 35.47 | 37.61 | 35.65 | | |
| Module Efficiency (%) | 20.48 | | 20.74 | | 21.00 | | 21.25 | | 21.51 | | | |

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 | Monocrystalline |
| Dimension (L × W × H) | Length: 1722mm (67.80 inch) |
| | Width: 1134mm (44.65 inch) |
| | Height: 30mm (1.18 inch) |
| Weight | 21.5kg (47.39 lbs) |
| Glass | 3.2mm 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 | -0.26%/°C |
| Current Temperature Coefficient | +0.042%/°C |
| Power Temperature Coefficient | -0.33%/°C |
| Tolerance | 0~+3% |
| NOCT | 45±2°C |

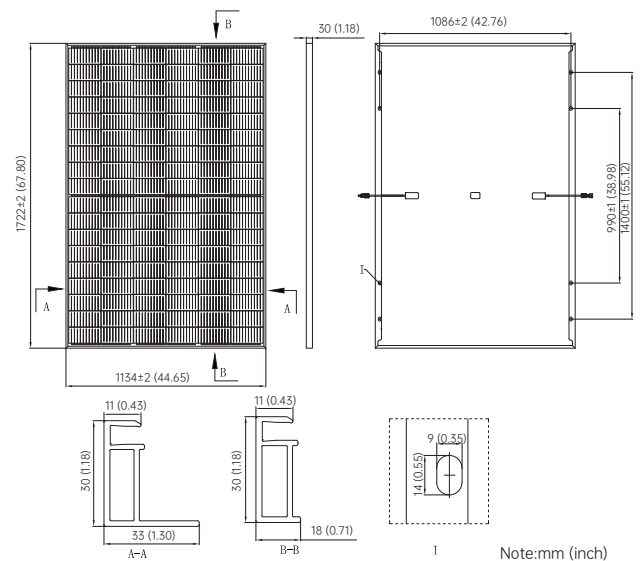
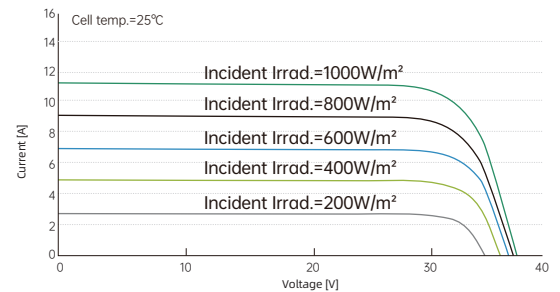
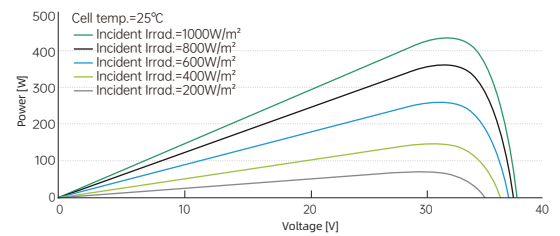
Absolute Maximum Rating

| | |
|-----------------------------------|--------------------|
| 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 | 25A |
| PV Module Classification | II |
| Fire Rating (IEC61730) | C |
| Maximum System Voltage | DC 1000V/1500V |

Packing Configuration

| | | |
|-------------------|--------|--------|
| Container | 20' GP | 40' HQ |
| Pieces/Container | 216 | 936 |
| Pcs/Pallet | 36 | 36 |
| Pallets/Container | 6 | 26 |

Electrical Characteristics



PHONO SOLAR TECHNOLOGY CO., LTD. reserves the right to make necessary adjustments to the information described herein at any time without further notice. The specifications and certificates contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. Please be sure to use the most recent version of data.