

540W-560W P SERIES TRANSPARENT BACKSHEET

SINGLE GLASS WITH 182" CELL SIZE HIGH EFFICIENT
PERC WITH 10BB SOURCED FROM THE STATES

EXTRAORDINARY PRODUCT PERFORMANCE

- UP TO 25% ADDITIONAL POWER YIELD BENEFITED FROM BIFACIAL TECHNOLOGY
- LOWER POWER LOSS IN CELL CONNECTION AND UNDER SHADING CONDITIONS
- COMPETITIVE HIGH-TEMPERATURE PERFORMANCE WITH AMELIORATED TEMPERATURE COEFFICIENT
- HIGHER POWER GENERATION WITH MULTI-BUSBAR AND HALF-CUT TECHNOLOGY

HIGH QUALITY RELIABILITY

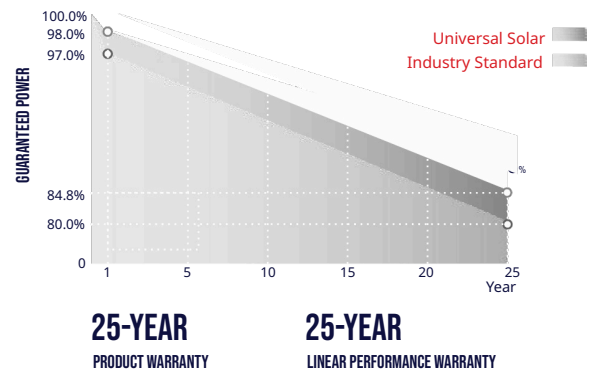
- OPTIMIZED ELECTRICAL DESIGN LOWERS SHOT POT RISK AND OPERATING CURRENT
- CORROSION RESISTANCE GUARANTEES ENHANCED RELIABILITY IN HARSH ENVIRONMENTS
- MINIMIZED RISK OF MICROCRACK AND SNAIL TRAIL

EASY INSTALLATION

- FRAMED DESIGN IMPROVES MOUNTING AND RACKING METHOD COMPATIBILITY
- SAFER AND EASIER HANDLING DURING TRANSPORTATION AND INSTALLATION

PID RESISTANT

- INDUSTRY-LEADING CELL PROCESSING TECHNOLOGY AND ELECTRICAL DESIGN ENSURES SOLID PID RESISTANCE



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 | UNI540-P182SGT-10B-144L | | UNI545-P182SGT-10B-144L | | UNI550-P182SGT-10B-144L | | UNI555-P182SGT-10B-144L | | UNI560-P182SGT-10B-144L | |
|-----------------------------|-------|-------------------------|-------|-------------------------|-------|-------------------------|-------|-------------------------|-------|-------------------------|--|
| | 1500V | UNI540-P182SGT-10B-144H | | UNI545-P182SGT-10B-144H | | UNI550-P182SGT-10B-144H | | UNI555-P182SGT-10B-144H | | UNI560-P182SGT-10B-144H | |
| Testing Condition | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | |
| Rated Power (Pmpp) | 540 | 402 | 545 | 405 | 550 | 409 | 555 | 413 | 560 | 417 | |
| Rated Current (Impp) | 13.06 | 10.55 | 13.15 | 10.63 | 13.24 | 10.70 | 13.33 | 10.77 | 13.42 | 10.84 | |
| Rated Voltage (Vmpp) | 41.35 | 38.07 | 41.45 | 38.16 | 41.55 | 38.25 | 41.64 | 38.34 | 41.73 | 38.42 | |
| Short Circuit Current (Isc) | 13.62 | 11.00 | 13.72 | 11.09 | 13.82 | 11.17 | 13.92 | 11.25 | 14.02 | 11.33 | |
| Open Circuit Voltage (Voc) | 49.39 | 46.62 | 49.49 | 46.72 | 49.59 | 46.81 | 49.69 | 46.91 | 49.79 | 47.00 | |
| Module Efficiency (%) | 20.90 | | 21.10 | | 21.29 | | 21.48 | | 21.68 | | |

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

Electrical Characteristics With Different Power Bin

| | | | | | | |
|-----|-----------------------|-------|-------|-------|-------|-------|
| 5% | Maximum Power (W) | 559 | 564 | 569 | 574 | 580 |
| | Module Efficiency (%) | 21.64 | 21.84 | 22.04 | 22.24 | 22.44 |
| 15% | Maximum Power (W) | 597 | 602 | 608 | 613 | 619 |
| | Module Efficiency (%) | 23.10 | 23.31 | 23.53 | 23.74 | 23.95 |
| 25% | Maximum Power (W) | 635 | 640 | 646 | 652 | 658 |
| | Module Efficiency (%) | 24.56 | 24.79 | 25.02 | 25.24 | 25.47 |

Mechanical Characteristics

| | |
|-----------------------------|---|
| Cell Type | Monocrystalline 182mm x 91mm |
| Dimension (L × W × H) | Length: 2278mm (89.69 inch) |
| | Width: 1134mm (44.65 inch) |
| | Height: 35mm (1.38 inch) |
| Weight | 28.0kg (61.72 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 | -0.28%/°C |
| Current Temperature Coefficient | +0.05%/°C |
| Power Temperature Coefficient | -0.35%/°C |
| Tolerance | 0~+5w |
| NOCT | 45±2°C |
| Bifaciality | 70±5% |

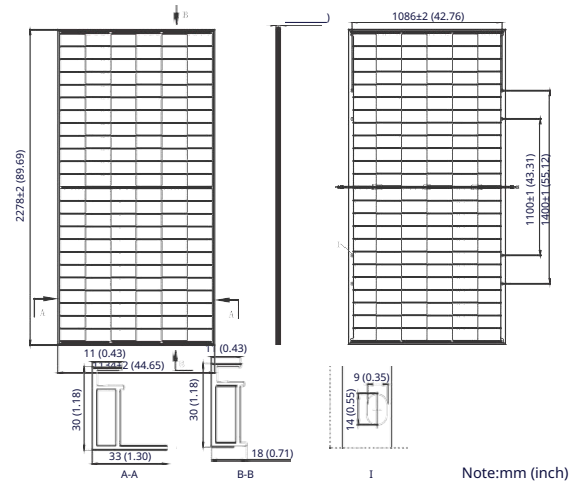
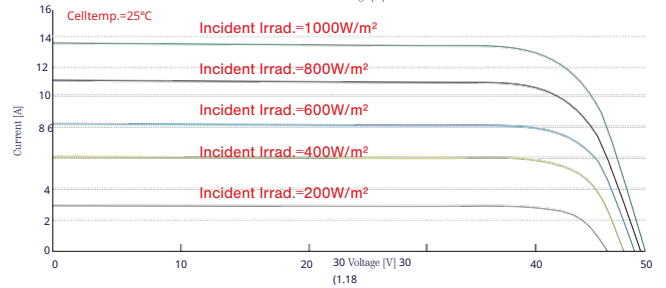
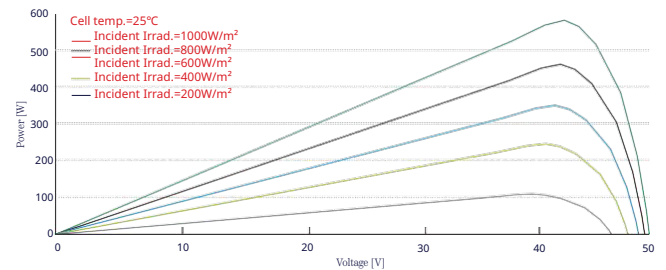
Absolute Maximum Rating

| | |
|-----------------------------------|--------------------|
| 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 | 2800Pa |
| Maximum Series Fuse Rating | 30A |
| PV Module Classification | Class II |
| Fire Rating (IEC61730) | C |
| Maximum System Voltage | DC 1000V/1500V |

Packing Configuration

| | | |
|------------------|--------|--------|
| Container | 20' HQ | 40' HQ |
| Pieces/Container | 155 | 620 |

Electrical Characteristics



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