








620~650W

Zeus series

Mono SMBB TOPCon
double glass solar panel

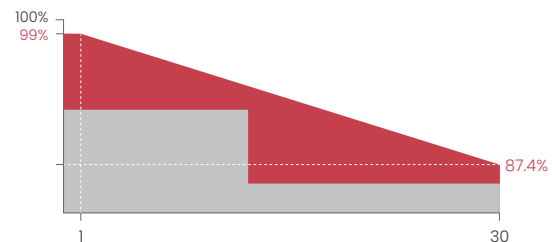
Products can match different installation conditions, taking into account high adaptability and high compatibility. With mature support and inverter scheme, customized design for distributed and centralized ground power stations.


MODULE CHARACTER


-  Exceptional PID Resistance
-  Salt mist resistance/Ammonia resistance /dust and hail resistance
-  Production process reliability test
-  0~+3% Positive Tolerance
-  Lower LID / LETID
-  Reduce BOS cost increase ROI
-  Non-destructive cutting
-  Double-sided electricity generation

CERTIFICATION

- IEC61215/IEC61730
- ISO9001:Quality Management System
- ISO14001:Environmental Management System
- ISO45001:Occupational Health and Safety Management System



 Linear performance warranty

 Product warranty



Electrical Characteristics(STC)

| | | | | | | | |
|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Power:Pmax[W] | 620 | 625 | 630 | 635 | 640 | 645 | 650 |
| Open Circuit Voltage: Voc [V] | 48.61 | 48.82 | 49.04 | 49.26 | 49.48 | 49.70 | 49.91 |
| Short Circuit Current: Isc [A] | 16.22 | 16.27 | 16.33 | 16.39 | 16.45 | 16.50 | 16.55 |
| Voltage at Maximum Power: Vmp [V] | 40.17 | 40.35 | 40.53 | 40.71 | 40.89 | 41.07 | 41.25 |
| Current at Maximum Power: Imp [A] | 15.44 | 15.49 | 15.55 | 15.6 | 15.66 | 15.71 | 15.75 |
| Module Efficiency: η [%] | 22.95 | 23.14 | 23.32 | 23.51 | 23.69 | 23.88 | 24.06 |

*STC: Irradiance 1000W/m², Cell temperature 25°C, AM=1.5, Power measurement tolerance: ±3%

Electrical Characteristics(BNPI)

| | | | | | | | |
|-----------------------------------|--------|-------|--------|--------|--------|--------|-------|
| Maximum Power:Pmax[W] | 686.96 | 692.5 | 698.04 | 703.58 | 709.12 | 714.66 | 720.2 |
| Open Circuit Voltage: Voc [V] | 48.61 | 48.82 | 49.04 | 49.26 | 49.48 | 49.70 | 49.91 |
| Short Circuit Current: Isc [A] | 17.96 | 18.03 | 18.09 | 18.15 | 18.22 | 18.28 | 18.34 |
| Voltage at Maximum Power: Vmp [V] | 40.17 | 40.35 | 40.53 | 40.71 | 40.89 | 41.07 | 41.25 |
| Current at Maximum Power: Imp [A] | 17.10 | 17.16 | 17.22 | 17.28 | 17.34 | 17.40 | 17.46 |

* BNPI: Front side irradiance 1000W/m², Rear side irradiance 135W/m², Cell Temperature=25°C, AM=1.5, Power measurement tolerance:±3%

Electrical characteristics with different rear side power gain

| | | | | | | | | |
|------------|------------------------|-----|--------|-------|--------|--------|--------|--------|
| 5% | Maximum power:Pmax [W] | 651 | 656.25 | 661.5 | 666.75 | 672.00 | 677.25 | 682.50 |
| 15% | Maximum power:Pmax [W] | 713 | 718.75 | 724.5 | 730.25 | 736.00 | 741.75 | 747.50 |
| 25% | Maximum power:Pmax [W] | 775 | 781.25 | 787.5 | 793.75 | 800.00 | 806.25 | 812.50 |

Temperature Rating

| | |
|---------------------------------|------------|
| Temperature Coefficient of Pmax | -0.26%/°C |
| Temperature Coefficient of Voc | -0.24%/°C |
| Temperature Coefficient of Isc | +0.046%/°C |

Operating Parameters

| | |
|---|-------------------|
| Operating Temperature | -40°C ~ +70°C |
| Maximum System Voltage | 1500V DC |
| Maximum Series Fuse Rating | 30A |
| Power Output Tolerance | 0 ~ +3% |
| Bifaciality coefficient of Pmax/Voc/Isc | 80±5%/98±5%/80±5% |

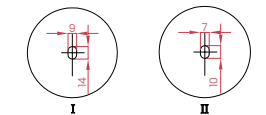
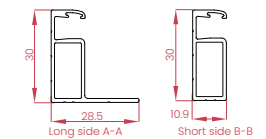
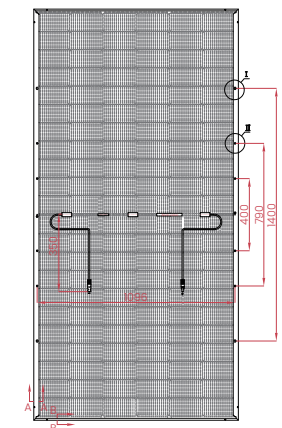
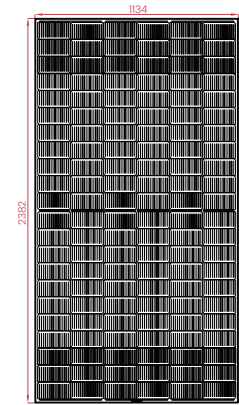
Mechanical Parameters

| | |
|-----------------------------------|--|
| Cell type | N-type Mono-Crystalline |
| Cell Orientation | 132(6×22) |
| Front /Rear Glass | 2.0mm AR coating semi tempered glass/2.0mm Semi tempered glass |
| Electrical Protection Class | Anodized aluminum alloy frame |
| Frame | Class II |
| IEC Fire Safety Class | Class C |
| Junction Box | IP68, 3 diodes |
| Cable&Connector | 4mm, EVO2 or EVO2 compatible |
| Cable Length(Including Connector) | 300mm or as customer's requirements |
| Maximum Static Test Load | 5400 Pa (front) / 2400 Pa (rear) |

Packing Details

| | |
|-----------------------|------------------------------|
| Dimension | 2382×1134×30mm |
| Weight | 32.5kg |
| Pallet Dimensions | 2395×1130×1259mm |
| Packaging(Per pallet) | 37pcs |
| Packaging | 276 pcs/20'GP, 740 pcs/40'HC |

ENGINEERING DRAWINGS



IV CURVES

