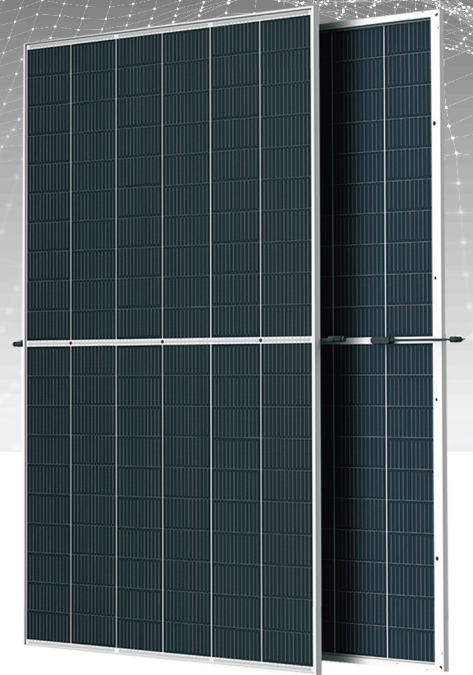


590W-610W



XP-600W-120BDG Bifacial

High Efficiency Half- Cell Mono PERC Module
The solar cells made of silicon

Comprehensive Products and System Certificates

- OHSAS 1 8001: Occupational Health and Safety Management System
- ISO 1 4001: Environmental Management System
- ISO 9001: Quality Management System



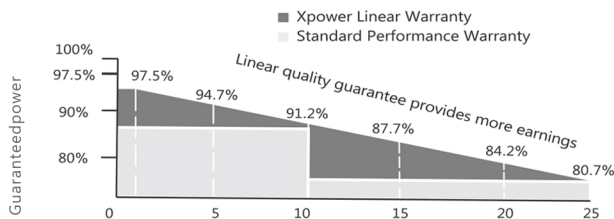
Linear Performance Warranty

15
YEARS

Product quality & process guarantee

25
YEARS

Linear power guarantee



Product Insurance



Half-cut cell technology
New circuit design
lower internal current, lower Rs loss



3 times EL test to ensure best quality



Resistant to salt-spray corrosion
(IEC61701, certified to TUV Rheinland test standard)



Special circuit design
With much lower hot spot temperature



Resistant to power
Attenuation passed TUV Rheinland system voltage endurance test

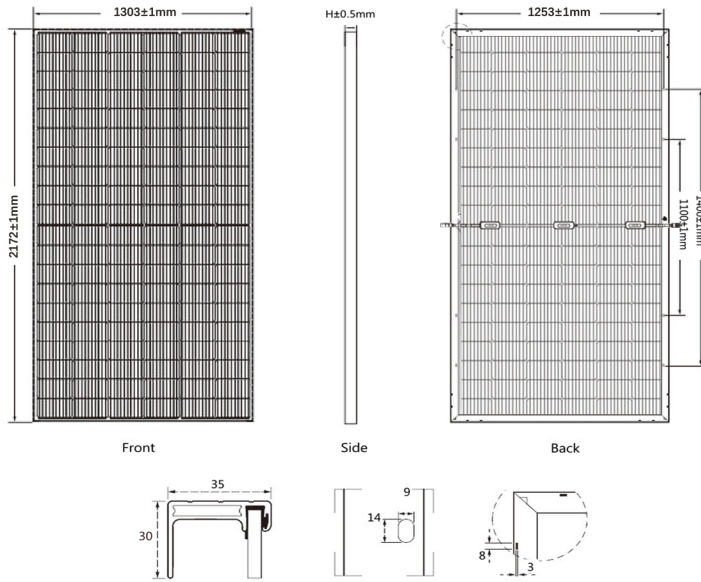


Special cell process ensures great performance under low irradiance conditions

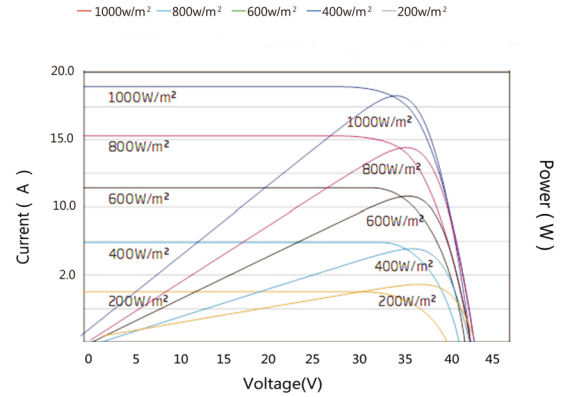
XP-(590W-610W)-120BDG Bifacial

Monocrystalline Module

DESIGN



Current-Voltage & Power-Voltage Curves(610W)



STRUCTURAL CHARACTERISTICS

| | |
|---------------------------|---|
| Module dimensions (L*W*H) | 2172 x 1303 x 35 mm |
| Weight | 31.0 kg |
| Number of cells | 120 cells |
| Cell | PERC Monocrystalline 210 x 105mm |
| Glass | Tempered 3.2mm AR, High transmittance, Low iron |
| Frame | Anodized aluminium alloy |
| Junction box | IP68, 3 diodes |
| Output wire | 4.0mm², wire length: 300mm |
| Connector | MC4 Compatible |
| Mechanical load | 5400Pa |

TEMPERFORMANCE RATINGS

| | |
|---------------------------------------|-----------|
| Temperature coefficient (P_{max}) | -0.35%/°C |
| Temperature coefficient (V_{oc}) | -0.27%/°C |
| Temperature coefficient (I_{sc}) | +0.05%/°C |
| Nominal operating cell temperature | 45±2°C |

PACKAGING CONFIGURATION

| | |
|--------------------|------|
| Container | 40HQ |
| Quantity/pallet | 31 |
| Pallets/container | 20 |
| Quantity/container | 620 |

ELECTRIC CHARACTERISTICS

| Model of modules | XP-590W-120BDG | | XP-600W-120BDG | | XP-610W-120BDG | |
|--------------------------------------|----------------|-------|----------------|-------|----------------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum power – P_{mp} (W) | 590 | 445 | 600 | 453 | 610 | 461 |
| Open-circuit voltage – V_{oc} (V) | 41.1 | 34.7 | 41.5 | 35.2 | 41.9 | 35.7 |
| Short-circuit current – I_{sc} (A) | 18.42 | 16.16 | 18.52 | 16.23 | 18.62 | 16.30 |
| Maximum power voltage – V_{mp} (V) | 32.9 | 28.7 | 33.3 | 29.1 | 33.7 | 29.5 |
| Maximum power current – I_{mp} (A) | 17.94 | 15.51 | 18.02 | 15.57 | 18.10 | 15.63 |
| Module efficiency – η_m (%) | 20.8% | | 21.2% | | 21.6% | |
| Module efficiency w/m² | 208.5W | | 212.0W | | 215.5W | |
| Power tolerance (W) | | | (0, +5) | | | |
| Maximum system voltage (V) | | | 1500V | | | |
| Maximum rated fuse current (A) | | | 25A | | | |
| Current operating temperature (°C) | | | -40°C ~ +85°C | | | |

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25 °C, Spectra at AM1.5

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/S