

SOLAR PANEL

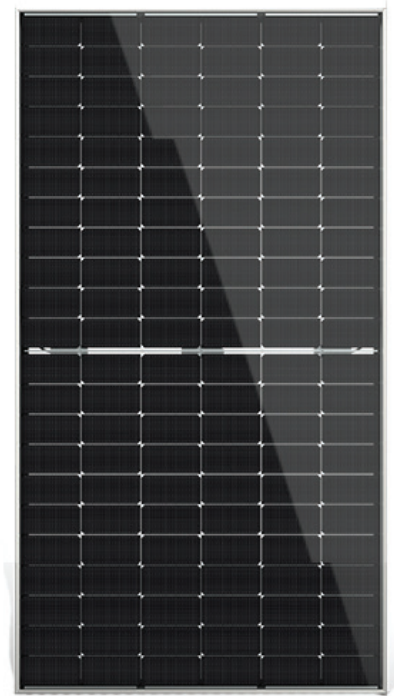
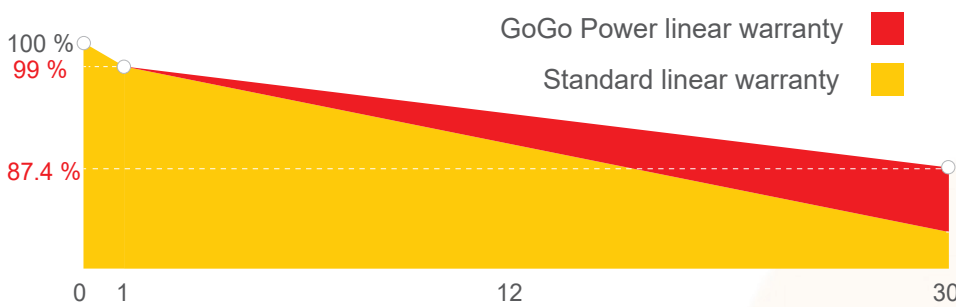
BIFACIAL MODULE

GP610W#BPVN

610 Watt N-Type
Module efficiency(%)
(22.6%)

BIFACIAL MODULE

Industry-leading Warranty based on nominal power



Features



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.



Lower LCOE

Higher bifaciality, higher power output and lower BOS cost



Extended wind and snow load tests

Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal) *



SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



Excellent weak light performance

More power output in weak light condition, such as cloudy, morning and sunset

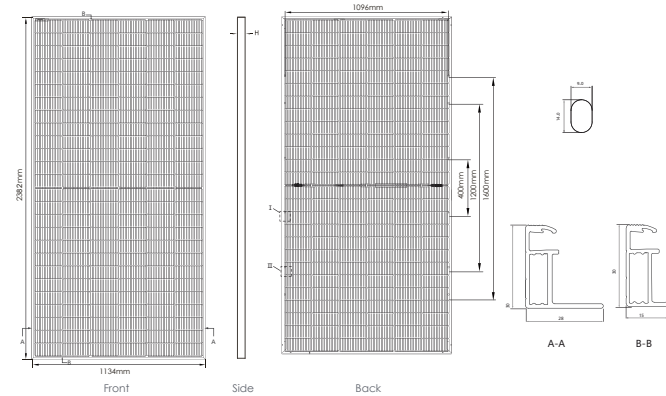
SOLAR PANEL BIFACIAL MODULE

GOOP

POWER

MECHANICAL SPECIFICATIONS

| | |
|-----------------------|--|
| Cell Type | N type Mono-crystalline |
| Cell Dimensions | 191.6*182mm |
| Cell Arrangement | 144 (6*12) |
| Weight | 33.5KG |
| Module Dimensions | 2382*1134*30mm |
| Cabls | 4.0mm2(+): 300mm , (-): 300mm or Customized Length |
| Front Glass | 2.0mm, Anti-Reflection Coating |
| Back Glass | 2.0mm, Heat Strengthened Glass |
| No. of Bypass Diodes | 3/6 |
| Packing Configuration | 36pcs/pallet, 720pcs/40hq |
| Frame | Anodized Aluminium Alloy |
| Junction Box | IP68 |



ELECTRICAL SPECIFICATIONS

| | | |
|-------------------------------|-------------|-------|
| Module Type | GP610W#BPVN | |
| Testing Condition | STC | NMOT |
| Rated output (Pmp/Wp) | 610 | 459 |
| Maximum Power Voltage(Vmpp/V) | 45.60 | 42.35 |
| Maximum Power Current(Imp/A) | 13.38 | 10.83 |
| Open Circuit Voltage(Voc/V) | 55.30 | 52.53 |
| Short Circuit Current(Isc/A) | 14.3 | 11.33 |
| Module efficiency(%) | 22.6% | |
| Power Tolerance (W) | 0~+5 | |

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

TEMPERATURE CHARACTERISTICS

| | |
|--------------------------------|------------|
| NMOT Temperature | 45°C ±2 °C |
| Temperature Coefficient (Pmax) | -0.30%/°C |
| Temperature Coefficient (Voc) | -0.25%/°C |
| Temperature Coefficient (Isc) | 0.046%/°C |

MAXIMUM RATINGS

| | |
|------------------------|--|
| Maximum System Voltage | 1500V DC(IEC) |
| Operating Temperature | -40°C ~ +85°C |
| Maximum Series Fuse | 30A |
| Static Loading | Snow Loading: 5400Pa/ Wind Loading: 2400Pa |
| Conductivity at Ground | ≤0.1Ω |
| Safety Class | II |
| Resistance | ≥100MΩ |
| Refer. Bifacial Factor | 80% ± 5% |

CURVE & TEMPERATURE DEPENDENCE

