

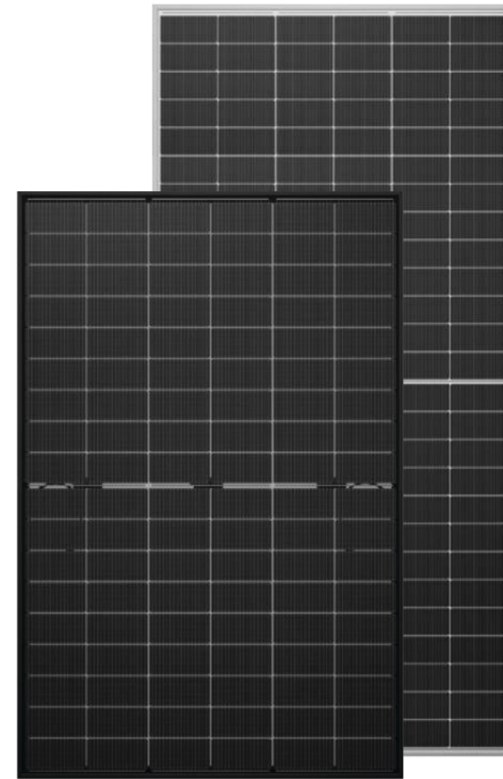
TOPCON SOLAR PANEL

Half Cell Monocrystalline Module

410W - 630W

Single Glass/Bifacial Dual Glass

Silver Frame/Black Frame



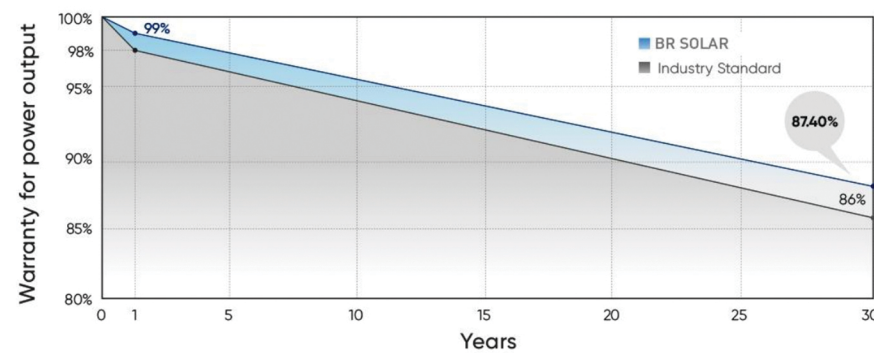
Quality Guarantee

25-Year Warranty

for Materials and Processing

30-Year Warranty

for Extra Linear Power Output



10-30% Additional Power Generation

30 years lifespan brings 10-30% additional power generation comparing with conventional P-type module.

ZERO LID (Light Induced Degradation)

N-type solar cell has no LID naturally which can increase power generation.

Higher Reliability

Adopted latest S-TOPCo 2.0 technology, No polysilicon wrap around, Full electrical isolation, Zero leakage current; Much Safer for roof.

Better Weak Illumination Response

Higher power output even under low-light environments like on cloudy or foggy days.

Better Temperature Coefficient

Higher power generation under working conditions, thanks to passivating contact cell technology.

Quality Management System & Product Certification

IEC61215/61730, IEC62804(PID), IEC61701(Salt).
 IEC62716 (Ammonia), IEC60068-2-68(Sand).
 ISO 9001:2015/quality management system.
 ISO 14001:2015/environmental management system.
 ISO 45001:2018/ occupation health safety management system.
 ISO 50001:2011/ energy management system.
 IEC TS 62941-2016/PV industry quality management system.

Mechanical Data

| | |
|----------------------|--|
| Solar Cells | N-type Mono |
| No. of Cells | 156 (6×26) |
| Dimensions | 2465 × 1134 × 35mm |
| Weight | 32.0kg |
| Front Glass | 3.2mm coated tempered glass |
| Frame | Anodized aluminium alloy |
| Junction Box | Ip68 rated (3 by pass diodes) |
| Output Cables | 4mm ² , 300mm (+) / 300mm (-), Length can be customized |
| Connectors | Mc4 compatible |
| Mechanical load test | 5400Pa |
| Packaging | 31pcs/box, 124pcs/20'GP, 496pcs/40'HQ |

Electrical Specification (STC*)

| Module Type: | BRM-610 | BRM-615 | BRM-620 | BRM-625 | BRM-630 |
|-----------------------------------|---------|---------|---------|---------|---------|
| Maximum power (Pmax/W) | 610 | 615 | 620 | 625 | 630 |
| Open Circuit Voltage (Voc/V) | 55.25 | 55.40 | 55.55 | 55.70 | 55.84 |
| Short Circuit Current (Isc/A) | 14.10 | 14.17 | 14.24 | 14.31 | 14.38 |
| Voltage at Maximum power (Vmpp/V) | 45.73 | 45.86 | 45.99 | 46.13 | 46.26 |
| Current Maximum Power (Impp/A) | 13.34 | 13.41 | 13.48 | 13.55 | 13.62 |
| MODULE EFFICIENCY (%) | 21.82 | 22.00 | 22.18 | 22.36 | 22.54 |

Electrical Specification (NMOT*)

| | | | | | |
|-----------------------------------|-------|-------|-------|-------|-------|
| Maximum power (Pmax) | 459 | 463 | 467 | 471 | 475 |
| Open Circuit Voltage (Voc/V) | 52.50 | 52.66 | 52.82 | 52.98 | 53.13 |
| Short Circuit Current (Isc/A) | 11.41 | 11.47 | 11.53 | 11.59 | 11.65 |
| Voltage at Maximum power (Vmpp/V) | 42.34 | 42.48 | 42.61 | 42.74 | 42.87 |
| Current Maximum Power (Impp/A) | 10.84 | 10.90 | 10.96 | 11.02 | 11.08 |

- Standard Test Conditions [STC]: irradiance 1000W/m²; AM 1.5; ambient temperature 25°C according to EN 60904-3;
- Nominal Module Operating Temperature (NMOT): Irradiance 800W/m²; wind speed 1m/s, ambient temperature 20°C.
- Tolerance of Pm: 0~+5W, Measuring uncertainty of power: ±3%. Performance deviation of Voc [V], Isc [A], Vm [V] and Im [A]: ±3%.

Operating Characteristics

| | |
|------------------------------|----------------|
| Operating Module Temperature | -40°C to +85°C |
| Maximum System Voltage | 1500 DC (IEC) |
| Maximum Series Fuse Rating | 25A |
| Power Tolerance | 0/+5W |

Temperature Characteristics

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