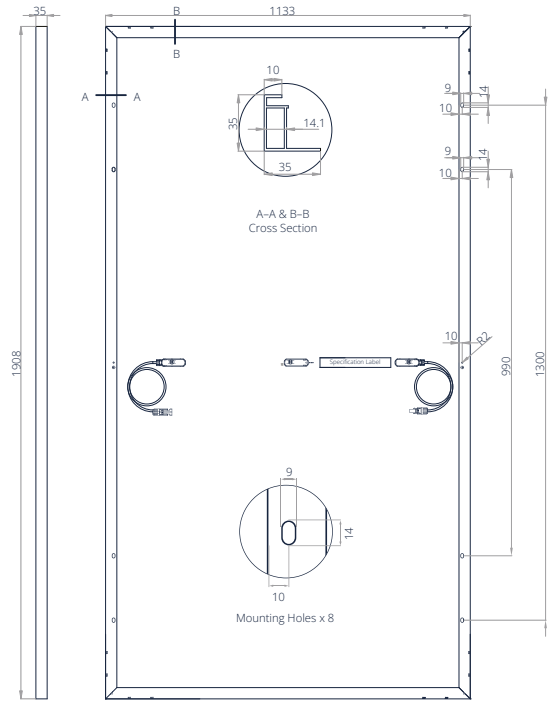


Walara 460-465G3P-BL

Data Sheet

Mechanical Characteristics

| | |
|-----------------|---|
| Cells per panel | 120 Half Cells |
| Cell Type | N-Type Cells (182x182mm) |
| Panel Dimension | 1908 x 1133 x 35 mm |
| Panel Weight | 24kg |
| Front Glass | 3.2mm, Fully tempered Double ARC Glass |
| Frame | Anodized Aluminum Alloy (T6) / Black |
| Junction Box | 3 bypass diodes / IP68 rated |
| Cable | 1200 mm(+/-), 4mm ² or Customised Length |
| Connector Type | Staubli-MC4 / KST4-EVO 2(M), KBT4-EVO 2(F) |



Electrical characteristics

[Positive power tolerance 0 ~ + 5]

| 120HC Cell Module | Walara-460G3P-BL | | Walara-465G3P-BL | | |
|-----------------------------|------------------|-------|------------------|-------|--------|
| ITEM | UNIT | STC* | NMOT** | STC* | NMOT** |
| Max. Power (Pmax) | Wp | 460 | 350.6 | 465 | 354.4 |
| Max. Power voltage (Vmp) | V | 35.37 | 33.35 | 35.53 | 33.5 |
| Max. Power current (Imp) | A | 13.01 | 10.52 | 13.09 | 10.58 |
| Open circuit voltage (Voc) | V | 42.80 | 40.68 | 42.96 | 40.83 |
| Short circuit current (Isc) | A | 13.81 | 11.13 | 13.89 | 11.20 |
| Module efficiency | % | | 21.3 | | 21.5 |

*STC (Standard Test Condition): 1,000 W/m², AM 1.5, 25°C · **NMOT(Nominal Module Operating Temperature) : Irradiance at 800W/m, Ambient Temperature 20°C, Wind Speed 1m/s, air mass of AM1.5 · # Tolerance of Measuring Pmax, Voc & Isc ± 3% within each watt class at STC

Thermal Characteristics

| RATING | UNIT | VALUE | |
|--------------------------------------|------|-----------|-------|
| Operating Temperature | °C | -40 ~ +85 | |
| Maximum System Voltage (IEC) | VDC | 1500 | |
| Maximum Series Fuse Rating | A | 30 | |
| Nominal Module Operating Temperature | °C | 45 ± 2 | |
| Temperature Coefficient | Isc | %/°C | 0.045 |
| | Voc | %/°C | -0.25 |
| | Pmax | %/°C | -0.32 |

Qualification test

| | |
|----------------------|--|
| Thermal cycling test | - 40°C to 85°C for 200 cycles |
| Damp heat test | 85°C and 85% relative humidity for 1000 hr |
| Mechanical Load test | 5400Pa (Front) / 2400Pa (Rear) |
| PID test | 1500 VDC, 96h, 85% RH, 85°C |
| Hail Impact test | 25mm hail at 23m/s from 1m distance |

Cyclone tested by Structural Engineering Consultants Australia (SECA) Pty Ltd - certificate available on request

Safety factor of *static load test: 1.5 (Test load = Design load x Safety factor)
NexTracker installation : Front load 1800 Pa / Back Load 1800 Pa

Safety Ratings & Warranties

| | |
|----------------------------|---------------------------------------|
| Safety Application Class | Class II |
| Fire Safety Classification | Class C |
| Certifications | IEC 61215, IEC 61730 |
| Warranty | 25 years limited product warranty |
| Performance Guarantee | 25 years limited warranty 87.4% power |

Packaging

| | | |
|-------------------------|------------|---------------------|
| Stacking Method | Horizontal | Vertical (Optional) |
| Panels per Pallet | 30 | 31 |
| Loading Capacity (40HQ) | 600 | 744 |

Walara 460-465G3P-BL V10-250217 - Note:

- The specifications included in this datasheet are subject to change without notice.
- The electrical data given here is for reference purpose only.