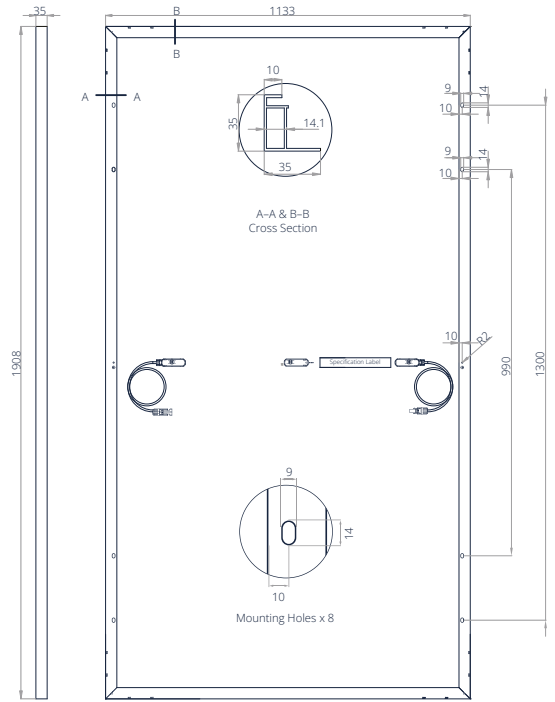


# Walara 470-475G3P

## 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 <sup>2</sup> or Customised Length
Connector Type	Staubli-MC4 / KST4-EVO 2(M), KBT4-EVO 2(F)



### Electrical characteristics

[ Positive power tolerance 0 ~ + 5 ]

ITEM	UNIT	Walara-470G3P		Walara-475G3P	
		STC*	NMOT**	STC*	NMOT**
Max. Power (Pmax)	Wp	470	358.2	475	362
Max. Power voltage (Vmp)	V	35.69	33.65	35.85	33.80
Max. Power current (Imp)	A	13.17	10.64	13.25	10.71
Open circuit voltage (Voc)	V	43.12	40.98	43.28	41.13
Short circuit current (Isc)	A	13.97	11.26	14.05	11.32
Module efficiency	%	21.7		22.0	

\*STC (Standard Test Condition): 1,000 W/m<sup>2</sup>, 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 470-475G3P 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.