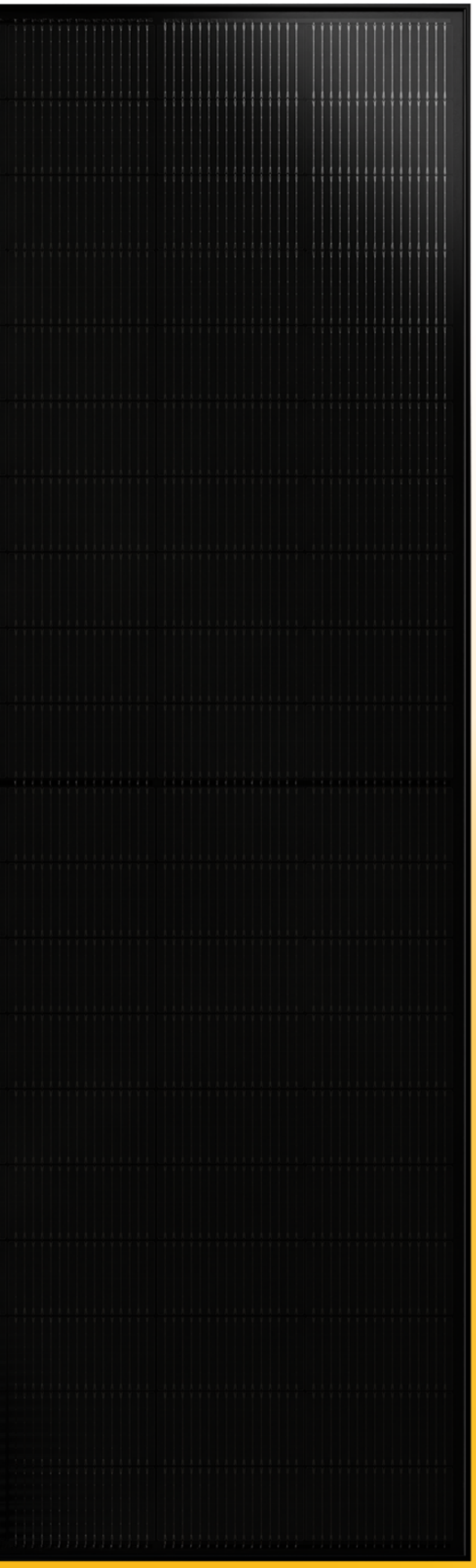


Walara Series 475W G4P-BL

Performance, Precision, and Proudly Australian.

- **Australian Made.**
  The G4P is the ultimate evolution in Australian renewable energy industry manufacturing. Designed and engineered by a local and experience team based in South Australia.
- **16BB High Efficiency Cells.**
  Powered by N-Type TOPCon technology integrated into premium power class laser-cut 16 busbar bifacial cells for fully optimised output, efficiency and durability.
- **Sleek Black Aesthetics**
  Engineered to deliver high performance, with all-black, minimalist styling that complements modern architecture and enhances kerb appeal without compromising on durability.
- **Intelligent Ultra-Rigid Structure.**
  Flex minimising 35mm no cut-back frame designed to protect the cells from micro-cracking and deliver increased integrity and longevity throughout extreme weather conditions.
- **Zero Defect Manufacturing Process.**
  Our unique process guarantees that every Tindo panel undergoes rigorous testing at 7 quality checkpoints ensuring high performance for the lifetime of the product.
- **Market Leading Warranty and Local Support.**
  Our local and experienced service, warranty and technical teams offer market leading, comprehensive support throughout the lifetime of your product.

Datasheet
Walara-475G4P-BL

Mechanical Characteristics

Cells per Panel	120 Half Cells
Cell Type	TOPCon N-Type Cells
Panel Dimension	1910 x 1133 x 35 mm
Panel Weight	23.5 Kg
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-EVO2 / KST4-EVO2(M), KBT4-EVO 2(F)

Thermal Characteristics

RATING		UNIT	VALUE
Operating Temperature		°C	–40 ~ +70
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	–0.3

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 23 m/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

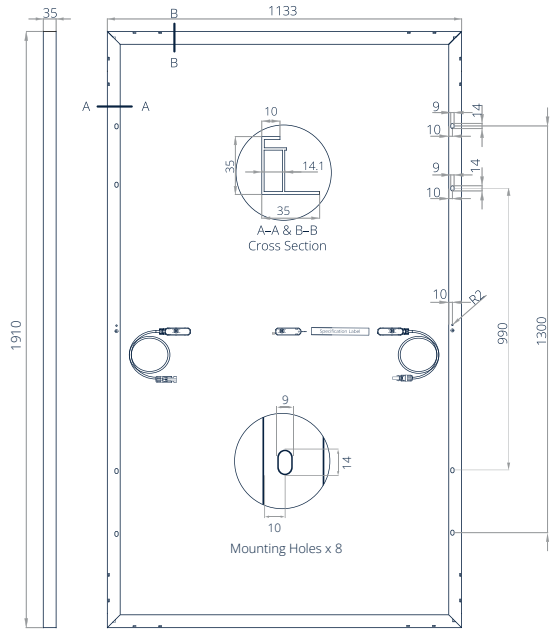
Safety Ratings & Warranties

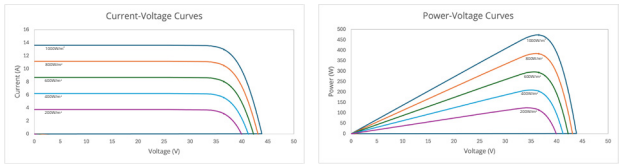
Safety Application Class	Class II
Fire Safety Classification	Class C
Certifications	IEC 61215 , IEC 61730
Warranty	25 years limited product warranty
Performance Guarantee	25 years limited warranty 87.4% power

Electrical Characteristics

120HC Cell Module		Walara-475G4P-BL	
ITEM	UNIT	STC*	NMOT**
Max. Power (Pmax)	Wp	475	362.1
Max. Power Voltage (Vmp)	V	36.55	34.46
Max. Power Current (Imp)	A	13.00	10.51
Open Circuit Voltage (Voc)	V	43.92	41.74
Short Circuit Current (Isc)	A	13.68	11.03
Module Efficiency	%	21.9	
Positive Power Tolerance	W	0 ~ + 5	

*STC (Standard Test Condition): 1,000 W/m^2 , 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





Graphs for Current-Voltage and Power-Voltage based on 475W

Packaging

Stacking Method	Horizontal	Vertical (Optional)
Panels per Pallet	30	30
Loading Capacity (40HQ)	600	720

- The specifications included in this datasheet are subject to change without notice.
- The electrical data given here is for reference purpose only.
- Manufactured in Australia by Tindo Operations Co Pty Ltd