

tindo walara 460-475 G3P

Electrical Characteristics [Power tolerance 0 / + 5W]

Model Name		Walara-460G3P		Walara-465G3P		Walara-470G3P		Walara-475G3P	
*STC / **NMOT	Unit	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Max. Power	Wp	460	350.6	465	354.4	470	358.2	475	362.0
Max. Power Voltage	V	35.37	33.35	35.53	33.50	35.69	33.65	35.85	33.80
Max. Power Current	A	13.01	10.52	13.09	10.58	13.17	10.64	13.25	10.71
Open Circuit Voltage	V	42.80	40.68	42.96	40.83	43.12	40.98	43.28	41.13
Short Circuit Current	A	13.81	11.13	13.89	11.20	13.97	11.26	14.05	11.32
Module Efficiency	%	21.3		21.5		21.8		22.0	

*STC (Standard Test Condition): 1,000 W/m², AM 1.5, 25°C

**NMOT(Nominal Module Operating Temperature): Irradiance at 800W/m², 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

Mechanical Characteristics

Cells per panel	120 Half Cells
Cell Type	N-Type Cells (182x182mm)
Panel Dimension	1905 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	Stabli-MC4 / KST4-EV0 2(M), KBT4-EVO 2(F)

Thermal Characteristics

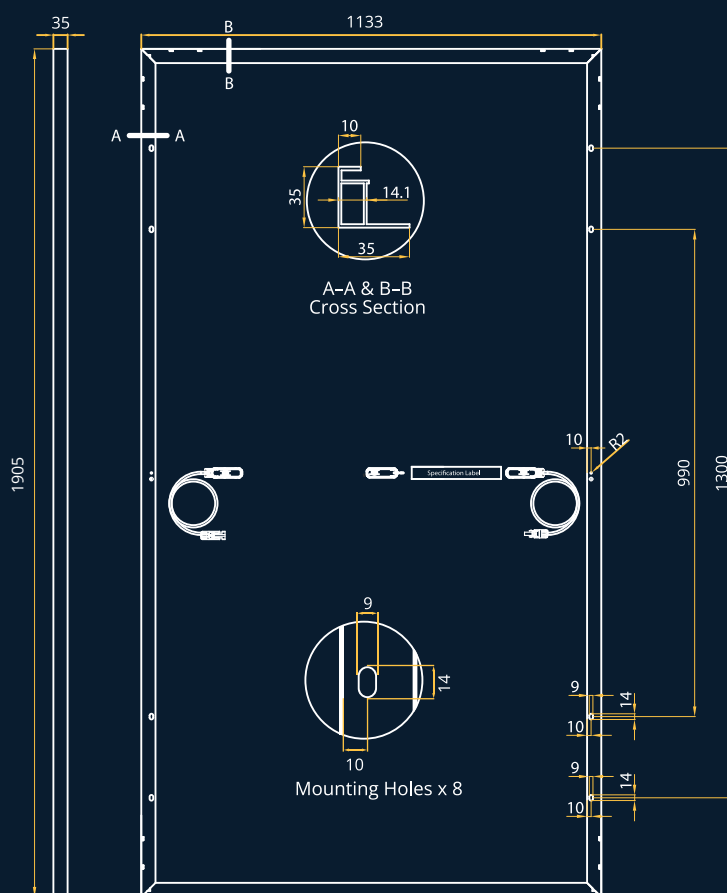
Operating Temperature		%	-40 ~ +85
Maximum System Voltage (IEC)		VDC	1500
Maximum Series Fuse Rating		A	30
Thermal Coefficient	Isc	%/°C	0.045
	Voc	%/°C	-0.25
	Pmax	%/°C	-0.32

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
Front Load test	5400Pa
Rear Load test	2400Pa
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 2400 Pa / Back Load 1800 Pa	

Packaging

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



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

Note:

- 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, 6-8 Park Way, Mawson Lakes, SA 5095

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