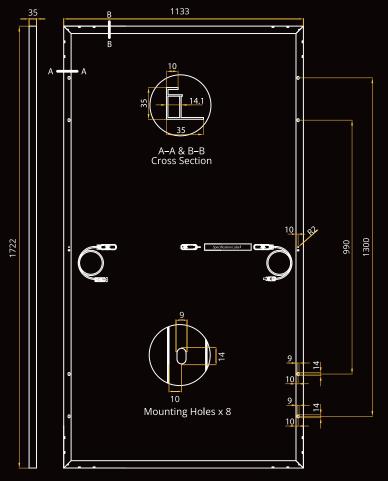
## tindo walara 415G3P-BL



Electrical Characteristics			
108HC Cell Module		Walara-415G3P-BL	
ltem	Unit	STC	NMOT
Max. Power (Pmax)	Wp	415	316.4
Max. Power voltage (Vmp)	V	31.84	30.02
Max. Power current (Imp)	Α	13.04	10.54
Open circuit voltage (Voc)	V	38.55	36.64
Short circuit current (lsc)	Α	13.84	11.16
Module Efficiency	%	21.3	
Positive power tolerance	W	0 + ~ 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  $\pm$  3% within each watt class at STC

Mechanical Characteristics		
Cells per panel	108 Half Cells	
Cell Type	N-Type Cells (182x182mm)	
Panel Dimension	1722 x 1133 x 35 mm	
Panel Weight	22kg	
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(+/-), 4mm2 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		Α	30
Nominal Module Operating Temperature		°C	45 ± 2
Thermal Coefficient	Isc	%/°C	0.045
	Voc	%/°C	-0.25
	Pmax	%/°C	-0.32

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	

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	
Colored to the Colored		

Cyclone tested by Structural Engineering Consultants Australia Pty Ltd (SECA) - 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	806

## Note:

- The specifications included in this datasheet are subject to change without notice.
- $\bullet$  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

