

tindo walara 415-430 G3P

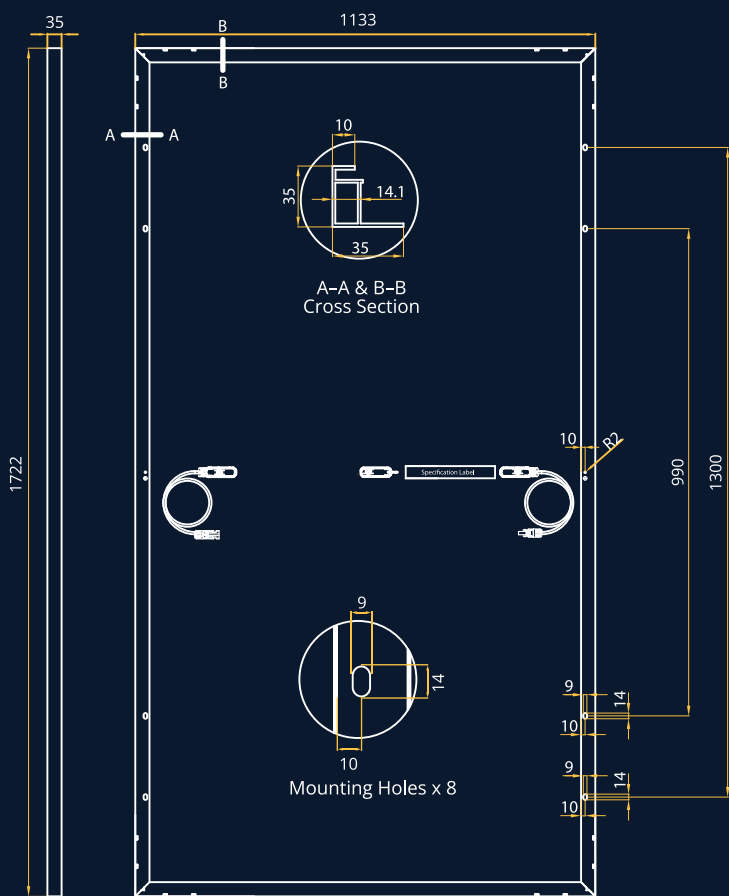
Electrical Characteristics [Power tolerance 0 / + 5W]									
Model Name		Walara-415G3P		Walara-420G3P		Walara-425G3P		Walara-430G3P	
*STC / **NMOT	Unit	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Max. Power	Wp	415	316.4	420	320.1	425	323.9	430	327.7
Max. Power Voltage	V	31.84	30.02	32.02	30.19	32.20	30.36	32.38	30.53
Max. Power Current	A	13.04	10.54	13.12	10.60	13.20	10.67	13.28	10.73
Open Circuit Voltage	V	38.55	36.64	38.73	36.81	38.91	36.98	39.09	37.15
Short Circuit Current	A	13.84	11.16	13.92	11.22	14.00	11.29	14.08	11.35
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/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									

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-EVO 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	806



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

