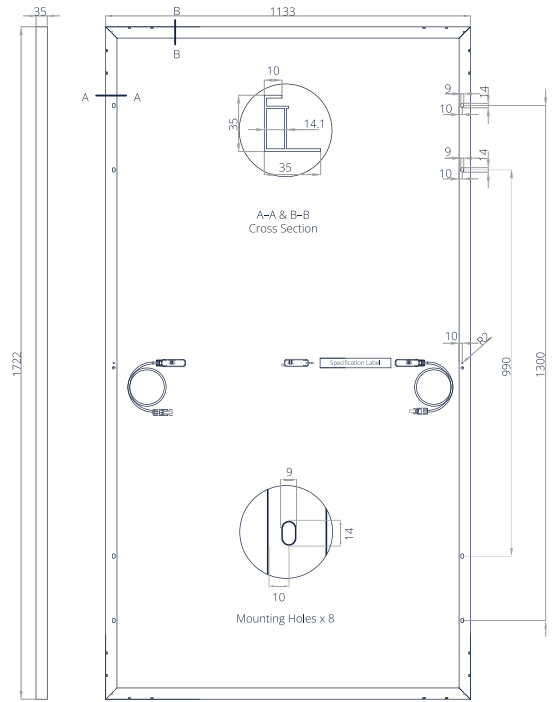


Walara 420-425G3P-BL

Data Sheet



Mechanical Characteristics

Cells per panel	108 Half Cells
Cell Type	N-Type Cells (182 x 182mm)
Panel Dimension	1722 x 1133 x 35 mm
Panel Weight	22 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 / KST4-EVO 2(M), KBT4-EVO 2(F)

Electrical characteristics

[Positive power tolerance 0 ~ + 5]

108HC Cell Module		Walara-420G3P-BL		Walara-425G3P-BL	
ITEM	UNIT	STC*	NMOT**	STC*	NMOT**
Max. Power (Pmax)	Wp	420	320.1	425	323.9
Max. Power voltage (Vmp)	V	32.02	30.19	32.2	30.36
Max. Power current (Imp)	A	13.12	10.6	13.2	10.67
Open circuit voltage (Voc)	V	38.73	36.81	38.91	36.98
Short circuit current (Isc)	A	13.92	11.22	14	11.29
Module efficiency	%		21.5		21.8

*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

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	806

Walara 420-425G3P-BL 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.