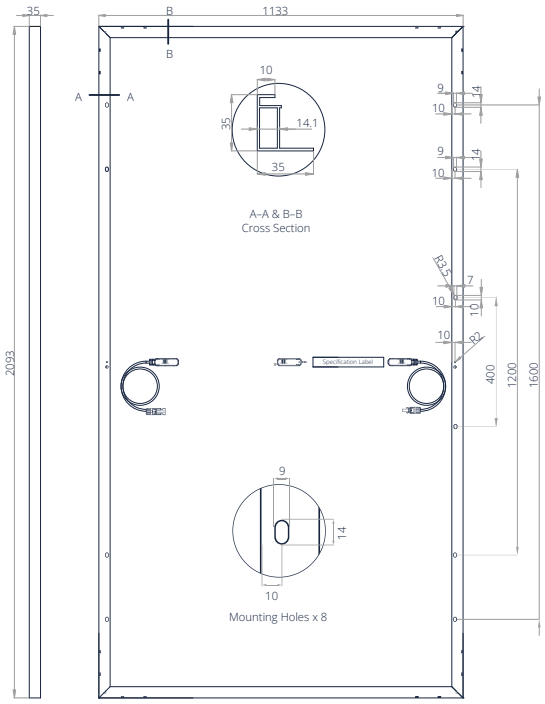
Walara 510–515G3P-BL Data Sheet



Mechanical Characteristics

Cells per panel	132 Half Cells
Cell Type	N-type Cells (182 x 182mm)
Panel Dimension	2093 x 1133 x 35 mm
Panel Weight	26 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(+/-), 4mm2 or Customised Length
Connector Type	Stabli – MC4 / KST 4-EVO2(M), KBT4-EV02(F)

Electrical characteristics

[Positive power tolerance 0 ~ + 5]

132HC Cell Module		Walara-510G3P-BL		Walara-515G3P-BL	
ITEM	**UNIT**	**STC***	**NMOT****	**STC***	**NMOT****
Max. Power (Pmax)	Wp	510	388.9	515	392.6
Max. Power voltage (Vmp)	V	39.23	36.99	39.39	37.14
Max. Power current (Imp)	A	13.01	10.52	13.08	10.57
Open circuit voltage (Voc)	V	47.46	45.11	47.62	45.26
Short circuit current (Isc)	A	13.78	11.11	13.86	11.17
Module efficiency	%	21. 5		21.7	

*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		%	–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, 85ºC
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	682

Walara 510–515G3P-BL V11-241018 – Note:
• The specifications included in this datasheet are subject to change without notice.
• The electrical data given here is for reference purpose only.