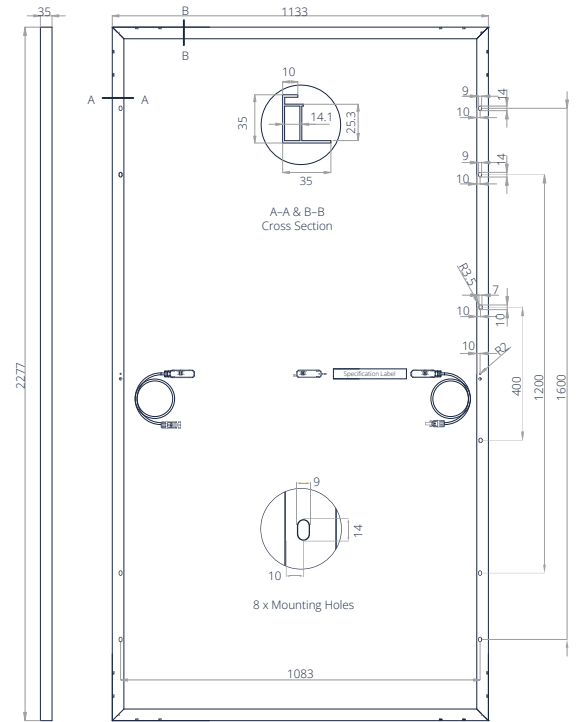


Walara 570-585G3F

Data Sheet

Mechanical Characteristics

Cells per panel	144 Half Cells
Cell Type	N-Type Cells (182x182mm)
Panel Dimension	2277 x 1133 x 35 mm
Panel Weight	32 ± 0.5 kg
Front Glass	2.0mm, Heat Strengthened ARC Glass
Encapsulation	Antil-PID POE encapsulation
Rear Glass	2.0mm Heat Strengthened Film Printed Glass
Frame	Anodized Aluminum Alloy (Black / Silver)
Junction Box	3 bypass diode / IP68 rated
Cable	500 mm(+/-) or Customised Length, 4 mm ² (IEC)
Connector Type	Staubli-MC4 / KST4-EVO 2(M), KBT4-EVO 2(F)



Electrical characteristics

[Positive power tolerance 0 ~ + 5]

144HC Cell Module		Walara-570G3P-DG		Walara-575G3P-DG		Walara-580G3P-DG		Walara-585G3P-DG	
ITEM	UNIT	STC*	NMOT**	STC*	NMOT**	STC*	NMOT**	STC*	NMOT**
Max. Power (Pmax)	Wp	570	434.4	575	438.2	580	442.0	585	445.9
Max. Power voltage (Vmp)	V	43.21	40.74	43.36	40.88	43.51	41.03	43.66	41.17
Max. Power current (Imp)	A	13.19	10.66	13.26	10.72	13.33	10.77	13.40	10.83
Open circuit voltage (Voc)	V	52.17	49.58	52.32	49.73	52.47	49.87	52.62	50.01
Short circuit current (Isc)	A	13.98	11.27	14.06	11.34	14.14	11.40	14.22	11.47
Module efficiency	%	22.1		22.3		22.5		22.7	

*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

Mechanical Characteristics

Backside Power Gain	%	5	10	15	20	25
Max. Power	Wp	599	627	656	684	713
Max. Power Voltage	V	43.2	43.3	43.3	43.3	43.4
Max. Power Current	A	13.8	14.5	15.2	15.8	16.5
Open Circuit Voltage	V	52.6	52.6	52.7	52.7	52.8
Short Circuit Current	A	14.7	15.4	16.1	16.8	17.5
Module Efficiency	%	23.2	24.3	25.4	26.5	27.6

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	0.05
	Voc	%/°C	-0.28
	Pmax	%/°C	-0.34

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	3600Pa (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 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	620

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.

