Datasheet Walara-585G4P

Mechanical Characteristics		
Cells per Panel	144 Half Cells	
Cell Type	TOPCon N-Type Cells	
Panel Dimension	2277 x 1133 x 35 mm	
Panel Weight	28.5 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-EVO2 / KST4-EVO2(M), KBT4-EVO 2(F)	

Thermal Characteristics			
RATING		UNIT	VALUE
Operating Temperature		°C	-40 ~ +70
Maximum System Voltage (IEC)		VDC	1500
Maximum Series Fuse Rating		А	30
Nominal Module Operating Temperature		°C	45 ± 2
Temperature Coefficient	Isc	%/°C	0.045
	Voc	%/°C	-0.25
	Pmax	%/°C	-0.3

- 40°C to 85°C for 200 cycles
85°C and 85% relative humidity for 1000 hr
5400Pa (Front) / 2400Pa (Rear)
1500 VDC, 96h, 85% RH, 85°C
25mm hail at 23 m/s from 1m distance

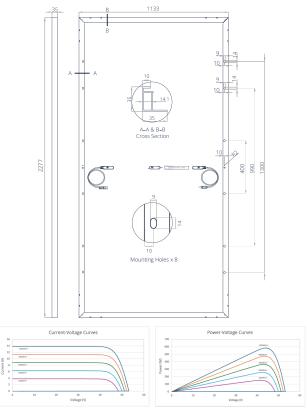
Cyclone tested by Structural Engineering Consultants Australia (SECA) Pty Ltd certificate available on request

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		
Class II		
Class C		
IEC 61215 , IEC 61730		
25 years limited product warranty		
25 years limited warranty 87.4% power		

Electrical Characteristics			
144HC Cell Module Walara-585G4P			-585G4P
ITEM	UNIT	STC*	NMOT**
Max. Power (Pmax)	Wp	585	445.8
Max. Power Voltage (Vmp)	V	44.32	41.79
Max. Power Current (Imp)	А	13.20	10.67
Open Circuit Voltage (Voc)	V	53.20	50.56
Short Circuit Current (Isc)	А	13.88	11.19
Module Efficiency	%	2	2.7
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



Graphs for Current-Voltage and Power-Voltage based on 585W

Packaging		
Stacking Method	Horizontal	Vertical (Optional)
Panels per Pallet	30	30
Loading Capacity (40HQ)	600	600

<sup>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</sup>



Datasheet Walara-590G4P

Mechanical Characteristics		
Cells per Panel	144 Half Cells	
Cell Type	TOPCon N-Type Cells	
Panel Dimension	2277 x 1133 x 35 mm	
Panel Weight	28.5 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-EVO2 / KST4-EVO2(M), KBT4-EVO 2(F)	

Thermal Characteristics			
RATING		UNIT	VALUE
Operating Temperature		°C	-40 ~ +70
Maximum System Voltage (IEC)		VDC	1500
Maximum Series Fuse Rating		А	30
Nominal Module Operating Temperature		°C	45 ± 2
Temperature Coefficient	Isc	%/°C	0.045
	Voc	%/°C	-0.25
	Pmax	%/°C	-0.3

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 23 m/s from 1m distance

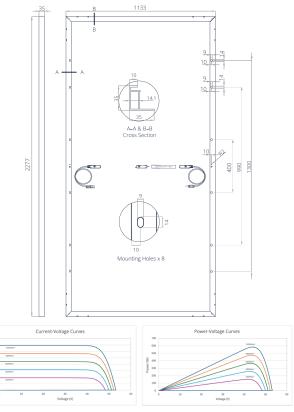
Cyclone tested by Structural Engineering Consultants Australia (SECA) Pty Ltd certificate available on request

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	

Electrical Characteristics			
144HC Cell Module Walara-590G4P			-590G4P
ITEM	UNIT	STC*	NMOT**
Max. Power (Pmax)	Wp	590	449.6
Max. Power Voltage (Vmp)	V	44.46	41.92
Max. Power Current (Imp)	А	13.27	10.73
Open Circuit Voltage (Voc)	V	53.35	50.70
Short Circuit Current (Isc)	А	13.96	11.25
Module Efficiency	%	2	2.9
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



Graphs for Current-Voltage and Power-Voltage based on 585W

Packaging		
Stacking Method	Horizontal	Vertical (Optional)
Panels per Pallet	30	30
Loading Capacity (40HQ)	600	600

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Datasheet Walara-595G4P

Mechanical Characteristics		
Cells per Panel	144 Half Cells	
Cell Type	TOPCon N-Type Cells	
Panel Dimension	2277 x 1133 x 35 mm	
Panel Weight	28.5 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-EVO2 / KST4-EVO2(M), KBT4-EVO 2(F)	

Thermal Characteristics				
RATING		UNIT	VALUE	
Operating Temperature		°C	-40 ~ +70	
Maximum System Voltage (IEC)		VDC	1500	
Maximum Series Fuse Rating		А	30	
Nominal Module Operating Temperature		°C	45 ± 2	
Temperature Coefficient	Isc	%/°C	0.045	
	Voc	%/°C	-0.25	
	Pmax	%/°C	-0.3	

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 23 m/s from 1m distance

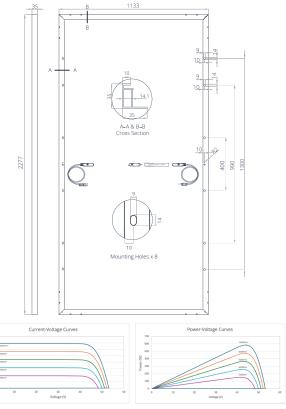
Cyclone tested by Structural Engineering Consultants Australia (SECA) Pty Ltd certificate available on request

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		

Electrical Characteristics				
144HC Cell Module	Walara	Walara-595G4P		
ITEM	UNIT	STC*	NMOT**	
Max. Power (Pmax)	Wp	595	453.4	
Max. Power Voltage (Vmp)	V	44.60	42.05	
Max. Power Current (Imp)	А	13.34	10.78	
Open Circuit Voltage (Voc)	V	53.50	50.85	
Short Circuit Current (Isc)	А	14.04	11.32	
Module Efficiency	%	2	3.1	
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



Graphs for Current-Voltage and Power-Voltage based on 585W

Packaging		
Stacking Method	Horizontal	Vertical (Optional)
Panels per Pallet	30	30
Loading Capacity (40HQ)	600	600

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