

SALO 590W-600W TopCon

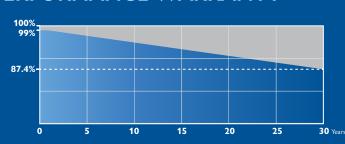
N-Type / Half-Cut

LINEAR PERFORMANCE WARRANTY

15 Years Product Warranty on Materials and Workmanship

30 Years Linear Performance Warranty

0.40%Subsequent Annual Degradation





GLASS

Anti-reflective coating, low iron content, high solar transmittance



CELLS

High efficiency, top quality, cell thickness 200±40um



BUSBAR

High quality, over 80% copper content, softer material to reduce cell breakage



FRAME

Min. 35mm aluminium frames with 15 μm anodized film, assembled with 2-component glue



BACKSHEET

Safe and reliable 3-layer sheet, 1000 and 1500V electric insulation



ENCAPSULANT

Designed to optimize module durability and performance, PID resistant



MADE IN THAILAND

responsibly by a Thai-Finnish solar company, using fully automated Finnish production lines.

600W

MAXIMUM POWER OUTPUT

23.2%

MAXIMUM EFFICIENCY 0~+5W

POWER OUTPUT TOLERANCE



High Power Output

Enhanced light capture and current collection for improved power output and module reliability.



Outstanding Low-Light Performance

Greater power output even in low-light conditions, such as on cloudy or foggy days.



Zero LID (Light Induced Degradation)

The N-type solar cell has no LID naturally which can increase power generation.



Superior Temperature Coefficient

Enhanced power output in operational environments, made possible by passivating contact cell technology.



PID Resistance

Optimized mass-production process and material control ensure outstanding Anti-PID performance.



Enhanced Mechanical Load

Certified to endure wind loads up to 2400 Pascal and snow loads up to 5400 Pascal.

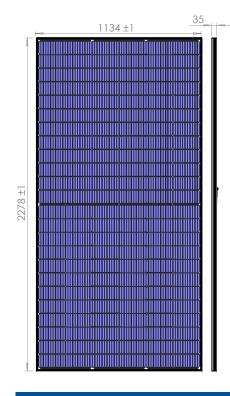


Durable in Extreme Environments

Dependable quality ensures greater sustainability, even in challenging environments such as deserts, farms, and coastlines.



SALO 590W-600W TopCon (E



MECHANICAL SPECIFICATION	
Solar Cell	N-Type TopCon silicon cell
Front Glass	3.2 mm thick tempered glass with high strength and ARC
Frame	Black or Silver anodized aluminium
Junction Box	IP68, 3 bu-pass diodes
Connector	MC4 Compatible
Cable	200 mm (±20%) lenght and 4 mm ² section
Area	2.58 m ²

OPERATING PARAMETERS		
Maximum Voltage	1500 V	
Maximum Series Fuse Rating. Ir	25 A	
Power Output Tolerance	0-5 W	
Voc and Isc Tolerance	±3%	
Fire Rating	Class C (UL 790)	
Protection Class	Class II (IEC 61140)	
Mechanical Loads	Front load 5400 Pa, Back load 2400 Pa	

ELECTRICAL PROPERTIES (STC*)			
Power Output (Wp)	590	595	600
Max Power Tolerance (W)	0-5	0-5	0-5
Module Efficiency (%)	22.78	22.95	23.14
Voltage Mpp-Vmpp (V)	45.10	45.22	45.36
Current Mpp-Impp (A)	13.09	13.16	13.23
Voltage Open Circuit-Voc (V)	52.04	52.19	52.34
Short Circuit Current-Isc (A)	14.00	14.04	14.06

^{*}STC: Irradiance 1000W/m², Cell Temperature 25°C, AM 1.5

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ELECTRICAL PROPERTIES (NOCT*)			
Power Output (Wp)	442	446	451
Voltage Mpp-Vmpp (V)	43.02	43.14	43.28
Current Mpp-Impp (A)	10.28	10.35	10.42
Voltage Open Circuit-Voc (V)	50.22	50.37	50.52
Short Circuit Current-Isc (A)	11.29	11.33	11.35

^{*}NOCT: Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

SALO® - Solar Panel is a registered trademark of Salo Tech Ltd. SALO® - Solar Panels have been manufactured under the controls established by a Bureau Veritas Certification approved management system that conforms with ISO 9001, 14001, 45001.

MECHANICAL CHARACTERISTICS		
Length	2278 mm	
Width	1134 mm	
Depth	35 mm	
Weight	28.4 kg	
No. of Cells and Connections	144 (6x12)	
Cell Size	91 x 182 mm	
No. of Busbars	10	

TEMPERATURE COEFICIENTS		
Temperature Coeficient of Isc (a)	0.045 %/°C	
Temperature Coeficient of Voc (β)	-0.275 %/°C	
Temperature Coeficient of Pmax (γ)	-0.29 %/°C	
Temperature Range	-40 °C ~ +85 °C	
Nominial Operation Cell Temperature (NOCT)	45 ± 2 °C	

PACKAGING CONFIGURATION	
Unit	40" HC
Pieces/Pallet	32
Pallets/Container	20
Pieces/Container	640



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