

VALOR SERIES

N-TOPCon 600Wp-625Wp

Key Features



Higher power output with N-Type cells.



Guaranteed consistent performance.



Better energy in low-light conditions.



Improved high-temp energy yield (-0.30%/°C).



Up to 23.12% efficiency, 10-30% higher than P-type.



Enhanced performance with MBB (16BB) N-TOPCon design.



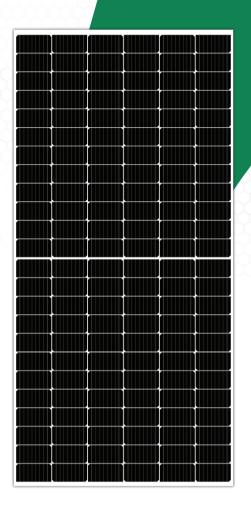
Durable under 2400 Pa wind and 5400 Pa snow load.



100% defect-free through rigorous testing.



Increased energy with 80±5% bifaciality.



Warranty





Product Warranty: 12 Years: Materials & Workmanship Linear Performance Warranty: 30 Years First Year Degradation: Up to 1.0% Annual Degradation (Years 2-30): 0.40%

Certifications









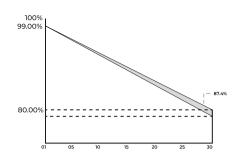




IEC 61215 || IEC 61730 || IEC 61701 || UL 61215 || UL 61730 || IS 14286 || IEC 62716 || IEC 62804 || IEC 62782 || IEC 60068-2-68 || IEC 61853-182

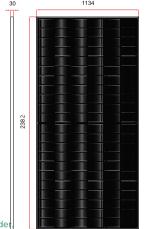


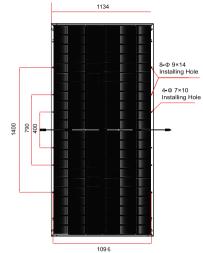
I-V Characteristics At Different Irr 16 14 800W/m² Current (A) 10 600W/m² 200W/m² Voltage(V)





MODULE MECHANICAL DATA SPECIFICATION DATA Cell Type N-TOPCon, 132 Cells **Dimensions** 2382x1134x30 mm Weight 33.5 Kgs Front Cover 2.00 mm Rear Cover Frame Material "Silver Anodized Aluminum Profile. J-Box IP68, 3 diodes Cable 350 mm. 4 mm² Connectors Mc4 Compatible Connector





The electrical data given here is for reference purpose only.

Please confirm your exact requirements with the sales representative while placing your order.

· Refer installation Manual instructions & IB Solar warranty statement for terms & conditions.

ELECTRICAL DATA PERFORMANCE

Module Type		600	0Wp	60	5Wp	610	OWp	615	Wp	620	Wp	625	Wp	
Conditions	Unit	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	
Peak Power, Pmax (Wp)	W	600	451	605	455	610	458	615	462	620	466	625	470	
Voltage at Maximum power, Vmp	V	40.11	38.02	40.31	38.21	40.51	38.40	40.71	38.59	40.91	38.78	41.11	38.97	
Current at maximum power, Imp	Α	14.96	11.87	15.01	11.91	15.06	11.94	15.11	11.98	15.16	12.02	15.21	12.06	
Open circuit voltage, Voc	V	47.98	45.49	48.18	45.67	48.38	45.86	48.58	46.05	48.78	46.24	48.98	46.43	
Short circuit current, Isc	Α	15.85	12.80	15.90	12.84	15.95	12.88	16.00	12.92	16.05	12.96	16.10	13.00	
Module Efficiency (%)		2	2.19%	22	2.38%	22	2.56%	22	75%	2	22.93%	2.	3.12%	
Operating Temperature (℃)			-40°C~+85°C			Temperature coefficients of Isc (α)			+0.046%/°C					
Maximum system voltage			1500 VDC			Nominal operating cell temperature				2 45±2°C				
Maximum series fuse rating			35A			Fire Safety				Class-C				
Power tolerance (Wp)			0~+3%				Protection Class II				Class-A			
Temperature coefficient of Pmax (y)			-0.30%/°C			Safety Class				Class-II				
Temperature coefficient of Voc (B)			-0.26%/°C											

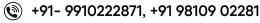
STC: Irradiance $1000W/m^2$, module temperature 25° C, AM =1.5; NOCT: Irradiance $800W/m^2$, ambient temperature 20° C, AM=1.5, wind Speed 1m/s. Average power reduction of 4.5% at $200W/m^2$ as per IEC 60904- 1. Except 1m/s. Except 1m/s. Average power reduction of 4.5% at $200W/m^2$ as 1m/s.

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BI-FACIAL OUTPUT	- BACKSIDE POWER GAIN							
Bifacial Gain	Measurement	Unit	600Wp	605Wp	610Wp	615Wp	620Wp	625Wp
5%	Peak Power (Pmax)	W	630	635	641	646	651	656
	Module Efficiency	%	23.30	23.15	23.69	23.89	24.08	24.27
10%	Peak Power (Pmax)	W	660	666	671	677	682	688
	Module Efficiency	%	24.41	24.62	24.82	25.02	25.23	25.43
15%	Peak Power (Pmax)	W	690	696	702	707	713	719
	Module Efficiency	%	25.52	25.74	25.95	25.95	26.37	26.59

^{*}Power gain from the rear side depends on the ground reflectance (Albedo) & Bifaciality factor

















[·] The specifications included in this datasheet are subject to change without notice