

Technical Specification

	Description - Technical Requirement		Quantity
A	ROOF TOP PV		
A.1	MATERIAL		
1.	PV MODULE		
1.1	Electrical Data		
1.1.1	Maximum Power (Wp)	630	
1.1.2	Maximum Power Voltage (Vmp)	47.7V	
1.1.3	Maximum Power Current (Imp)	13.21 A	
1.1.4	Open-Circuit Voltage (Voc)	57.08V	
1.1.5	Short-Circuit Current (Isc)	13.86A	
1.1.6	Module Efficiency STC (%)	22.54%	
1.1.7	Operrating Temperature (°C)	-40°C~+85°C	
1.1.8	Maximum system voltage	1500VDC (IEC)	
1.1.9	Maximum series fuse rating	30A	
1.1.10	Power Tolerance	0~+3%	
1.2	Mechanical Characteristic		
1.2.1	Dimensions	2465x1134x30mm	
1.2.2	Weight	34kg	
1.2.3	Cell type	N Type Mono-Crystalline	
1.2.4	No. of cells	156 (2x78)	
1.2.5	Front glass	2.0mm, Anti-Reflection Coating	
1.2.6	Frame	Anodized Alluminium Alloy	
1.2.7	Junction Box	IP68 Rated	
1.2.8	Connectors	TUV 1x4.0mm ²	
1.3	Mechanical Characteristic		
1.3.1	Temperature coefficient of Pmax	-0.29%/°C	
1.3.2	Temperature coefficient of Voc	-0.25%/°C	
1.3.3	Temperature coefficient of Isc	0.045%/°C	
1.3.4	Nominal operating cell temperature (NOCT)	45±2°C	
1.4	Warranty		
1.4.1	Product Warranty	12 Years	
1.4.2	Linear Power Warranty	30 Years	
1.4.3	Annual Degradation Over 25 Years	0.40%	
2.	INVERTER		
2.1	Efficiency		
2.1.1	Max Efficiency	≥99.0%	
2.1.2	European Efficiency	≥98.8%	
2.2	Input		
2.2.1	Max. Input Voltage	1.500 V	
2.2.2	Number of MPP Trackers	6	
2.2.3	Max. Current per MPPT	65 A	
2.2.4	Max. Short Circuit Current per MPPT	115 A	
2.2.5	Max . PV Input per MPPT	4/5/5/4/5/5	
2.2.6	Start Voltage	550 V	
2.2.7	MPPT Operating Voltage Range	500 V - 1.500 V	
2.2.8	Nominal Input Voltage	1.080 V	
2.3	Output		
2.3.1	Nominal AC Active Power	300.000 W	
2.3.2	Max. AC Apparent Power	330.000 VA	
2.3.3	Max. AC Active Power (cosφ=1)	330.000 W	
2.3.4	Nominal Output Voltage	800 V, 3W + PE	
2.3.5	Rated AC Grid Frequency	50 Hz / 60 Hz	
2.3.6	Nominal Output Current	216.6 A	
2.3.7	Max. Output Current	238.2 A	
2.3.8	Adjustable Power Factor Range	0.8 Lag - 0.8 Lead	
2.3.9	Total Harmonic Distortion	<1%	
2.4	Protection		
2.4.1	Smart String-Level Disconnecter (SSLD)	Yes	
2.4.2	Anti-Islanding Protection	Yes	
2.4.3	AC Overcurrent Protection	Yes	
2.4.4	DC Reverse-polarity Protection	Yes	
2.4.5	PV-array String Fault Monitoring	Yes	
2.4.6	DC Surge Arrester	Type II	
2.4.7	AC Surge Arrester	Type II	
2.4.8	DC Insulation Resistance Detection	Yes	
2.4.9	AC Grounding Fault Protection	Yes	
2.4.10	Residual Current Monitoring Unit	Yes	

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1 lot

2.5	Communication	
2.5.1	Display	LED Indicators, WLAN+APP
2.5.2	USB	Yes
2.5.3	MBUS	Yes
2.5.4	RS485	Yes
2.6	General	
2.6.1	Operating Temperature Range	-25 °C ~ 60 °C
2.6.2	Cooling Method	Smart Air Cooling
2.6.3	Max. Operating Altitude without Derating	4.000m (13.123ft)
2.6.4	Relative Humidity	0-100%
2.6.5	AC Connector	Waterproof Connector + OT/DT Terminal
2.6.6	Protection Degree	IP 66
2.6.7	Topology	Transformerless
3.	CABLE	
3.1	AC/DC Cable follow SNI 0225:2020	Top 5 Cable Manufacture
4.	SWITCH	
4.1	Switch follow follow SNI 0225:2020	Top 3 Switch Manufacture