

Technical Specification Sheet

Model		AL – 3KW	AL – 5KW	NKD - 10KW
Rated Power		3 KW	5 KW	10 KW
Inverter	Input Voltage	140 VAC – 275 VAC	140 VAC – 275 VAC	220 VAC ± 20 %
	Input Frequency	45 Hz - 65 Hz	45 Hz - 65 Hz	50 Hz / 60 Hz ± 5 %
	Output Voltage	220 VAC	220 VAC	220 VAC ± 5 %
	Output Frequency	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz ± 1 %
	Output wave form	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave THD < 4 % (Full Load)
	Conversion Time	< 10 ms	< 10 ms	< 10 ms
	Overload	110-120%/30S ; > 150%/300ms ;	110-120%/30S ; > 150%/300ms ;	110 – 220 % 30 S : > 150 % 300 ms
	Efficiency	≥ 90 % (100 % resistive load)	≥ 90 % (100 % resistive load)	≥ 90 % (100 % resistive load)
	Dynamic load voltage transient	< ± 5 % (0-100 %)	< ± 5 % (0-100 %)	< ± 5 % (0-100 %)
	Defensive function	Output short circuit, over voltage, low voltage, low battery power	Output short circuit, over voltage, low voltage, low battery power	Output short circuit, over voltage, low voltage, low battery power
BMS	Operating Voltage	32 – 57.6 VDC	32 – 57.6 VDC	80 VDC – 116.8 VDC
	Max Charge Voltage	58.4 VDC	58.4 VDC	121.6 VDC
	Max Discharge Voltage	40 VDC	40 VDC	116.8 VDC
	Standard Discharge Circuit	0.5 C	0.5 C	0.5 C
Other	Operating Ambient Temperature	- 20 – 50 °C	- 20 – 50 °C	-10 – 40 °C
	Storage Ambient Temperature	-25 – 55 °C	-25 – 55 °C	-25 - 55 °C
	Environment Relative Humidity	0 – 90 % (No Condensation)	0 – 90 % (No Condensation)	20 – 90 % (No Condensation)
	Heat Dissipation / Cooling	Temperature Control by Intelligent exhaust fan	Temperature Control by Intelligent exhaust fan	Temperature Control by Intelligent exhaust fan
Product Size	(L) * (W) * (H)	606 mm *528 mm * 586 mm	606 mm *528 mm * 846 mm	536 mm * 560 mm * 1015 mm
Weight	Inverter	-	-	150 KG
	Batteries	-	-	2 * 90 KG
	Inverter and Batteries	120 KG	195 KG	-
Certifications and Standards	Grid regulation	IEC 62040-1	IEC 62040-1	IEC 62040-1
	Safety Regulation	IEC 62040-1	IEC 62040-1	IEC 62040-1
	EMC	EN 6100-6-3; EN 61000-6-1	EN 6100-6-3; EN 61000-6-1	EN 6100-6-3; EN 61000-6-1