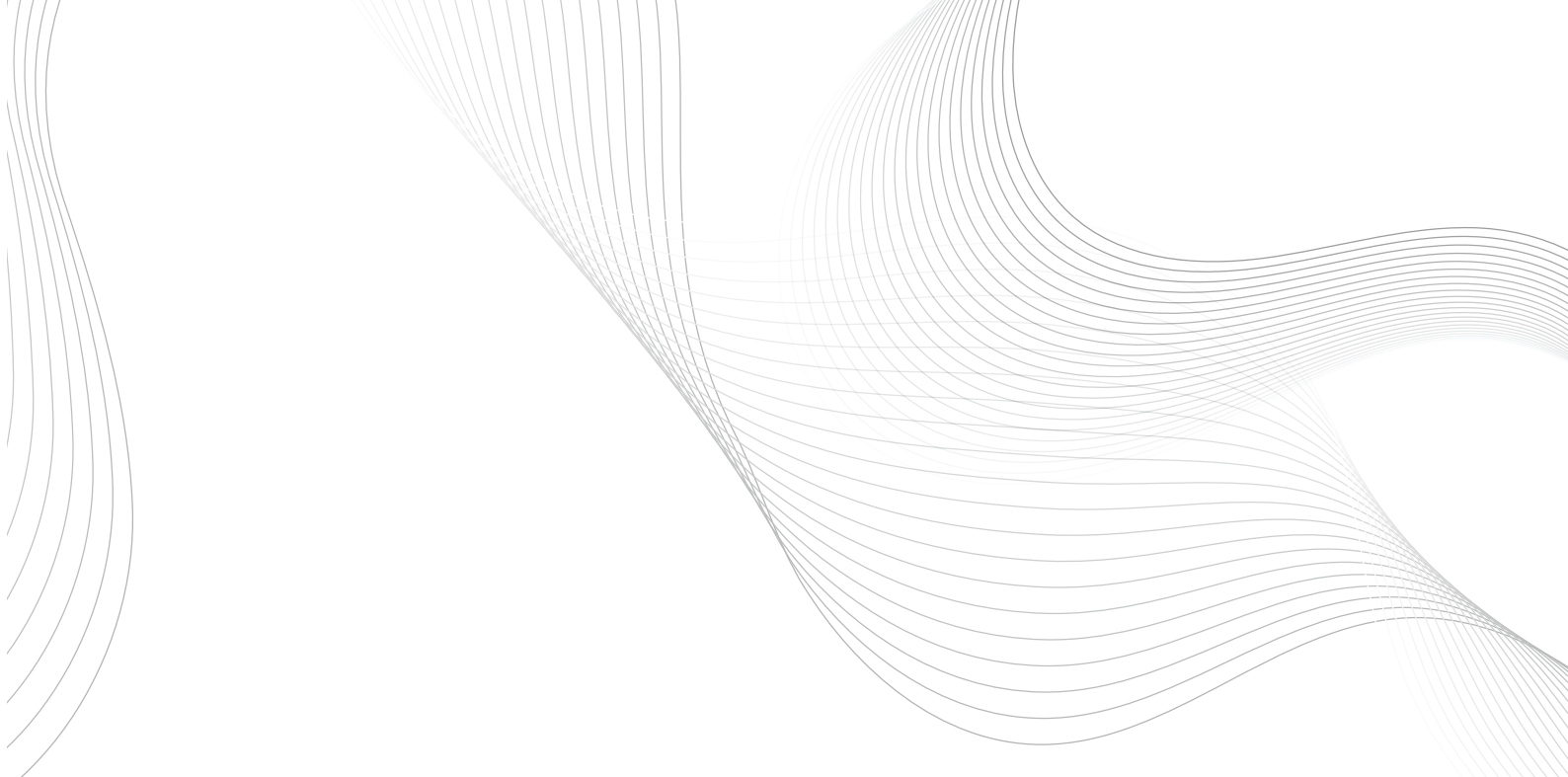




Voln**e**x

ENERGY STORAGE SYSTEM

The Brand Behind The Power

Volne**x** Complete Family of
Energy Storage Solutions



RESIDENTIAL BATTERY

Alpha 5.12

Low Voltage

Features



Auto aerosol fire extinguishing
Ultimate security, strengthen defense



One button start / stop and
parallel connection



Full automatic manufacturing
products



Real-time data monitoring and
firmware update



100% tested for safety,
readability and capacity



Touch LCD display shows data
visually



Top-notch LFP Class A cell
/ Strict capacity grading



Versatile installation



Precise voltage / temperature
/ SOC detection



DATASHEET

Model		Alpha 5.12
Performance		
Cell technology		LFP (LiFePO ₄)
Battery usable energy [1]		5120 Wh
Cell Capacity		100 Ah
Nominal voltage		51.2 Vdc
Operating voltage		44.8 ~ 56.16 V
Max. charge and discharge current [2]		100 A
Communication		
Display		SOC status indicator, LED indicator, LCD display
Communication		CAN / RS485 / RS232 / Wi-Fi
General Specification		
Dimension (W×D×H)	390×160×643 mm	
	15.35×6.3×25.31 inch	
Weight	47 Kg (103.6 lbs)	
Installation	Floor stand or Wall mounted	
Operating temperature [3]	Charge: 0 to 50°C (32 to 122°F) Discharge: -15 to 50°C (5 to 122°F)	
Environmental humidity	≤ 95%RH (No condensation)	
Ingress protection rating	IP20	
Cycle Life	6000 Cycles @ 80%DOD / 25°C / 0.5C 60% EOL	
Warranty Period [4]	10 years warranty (5 years product + 5 years service)	
Scalability	Max. 15 batteries in parallel	
Application	ON Grid / ON Grid + Backup / OFF grid	
Compatible inverters	Refer to compatible inverter list (Compatible with major PCS brands)	
Standard Compliance		
Compliance		UN38.3 / IEC62619 / IEC61000 (More available upon request)
Ordering and Delivery Parts		
Parts	Alpha 5.12 Battery	
	Alpha 5.12 Parallel cable	
	Alpha 5.12 to PCS cable	

[1] Test conditions: 100% depth of discharge (DOD), 0.2C rate charge & discharge at 25°C.

[2] There is 0.5C or 1C configurations optional in factory default.

[3] Charge/discharge derating occurs when the temperature is below 0°C or above 45°C.

[4] Please refer to the Warranty Letter for applicable conditions.