

RESIDENTIAL BATTERY

Alpha 2.56

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 2.56
Performance		
Cell technology		LFP (LiFePO ₄)
Battery usable energy [1]		2560 Wh
Nominal voltage		25.6 Vdc
Operating voltage		22.4 ~ 28.08 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)	360×160×473 mm	
	14.17×6.29×18.62 inch	
Weight		25 Kg (55.12 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 (5 years Product + 5 years’ Service)
Scalability		(Optional)
Application		Max. 15 batteries in parallel
Compatible inverters		ON Grid / ON Grid + Backup / OFF grid
Standard Compliance		
Compliance		UN38.3 / IEC62619 / IEC61000 (More available upon request)
Ordering and Delivery Parts		
Parts	Alpha 2.56 Battery	
	Alpha 2.56 Parallel cable	
	Alpha 2.56 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.

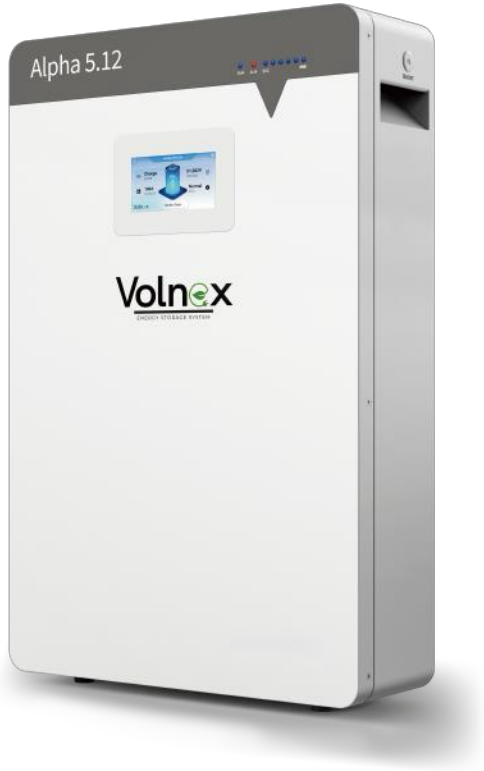
[3] Charge/discharge derating occurs when the temperature is below 0°C or above 45°C.

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

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
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 (5 years product + 5 years' service)
Scalability		(Optional)
Application		Max. 15 batteries in parallel
Compatible inverters		ON Grid / ON Grid + Backup / OFF grid
		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.

RESIDENTIAL BATTERY

Alpha 11.77

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 11.77
Performance		
Cell technology	LFP (LiFePO ₄)	
Battery usable energy [1]	11776 Wh	
Nominal voltage	51.2 Vdc	
Operating voltage	44.8 ~ 56.16 V	
Max. charge and discharge current [2]	200 A	
Communication		
Display	SOC status indicator, LED indicator, LCD display	
Communication	CAN / RS485 / RS232 / Wi-Fi	
General Specification		
Dimension (W×D×H)	425×245×690 mm	
	16.73×9.65×27.17 inch	
Weight	89 Kg (196.21 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 (years Product + 5 years' Service)	
Scalability	(Optional)	
Application	Max. 15 batteries in parallel	
Compatible inverters	ON Grid / ON Grid + Backup / OFF grid	
Standard Compliance		
Compliance	UN38.3 / IEC62619 / IEC61000 (More available upon request)	
Ordering and Delivery Parts		
Parts	Alpha 11.77 Battery	
	Alpha 11.77 Parallel cable	
	Alpha 11.77 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.

RESIDENTIAL BATTERY

Alpha 16

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



Easy movement and installation
roller



Precise voltage / temperature
/ SOC detection

DATASHEET

Model		Alpha 16
Performance		
Cell technology		LFP (LiFePO4)
Battery usable energy [1]		16076.8 Wh
Nominal voltage		51.2 Vdc
Operating voltage		44.8 ~ 56.16 V
Max. charge and discharge current [2]		300 A
Communication		
Display		SOC status indicator, LED indicator, LCD display
Communication		CAN / RS485 / RS232 / Wi-Fi
General Specification		
Dimension (W×D×H)	485×245×785 mm	
	19.1×9.6×30.91 inch	
Weight		122 kg (265.96 lbs)
Installation		Floor stand
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 (5 years product + 5 years’ service)
Scalability		(Optional)
Application		Max. 15 batteries in parallel
Compatible inverters		ON Grid / ON Grid + Backup / OFF grid
Standard Compliance		
Compliance		UN38.3 / IEC62619 / IEC61000 (More available upon request)
Ordering and Delivery Parts		
Parts	Alpha 16 Battery	
	Alpha 16 Parallel cable	
	Alpha 16 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.

RESIDENTIAL BATTERY

Armor 5.12

Low Voltage



Features

- 

Auto aerosol fire extinguishing
Ultimate security, strengthen defense
- 

One button start / stop and
parallel connection
- 

Full automatic manufacturing,
CCS technique
- 

Real-time data monitoring and
firmware update
- 

100% tested for safety,
readability and capacity
- 

P65 design, more installation
scenario
- 

Top-notch LFP Class A cell
/ Strict capacity grading
- 

Comprehensive verification,
TÜV / UL Certificated
- 

Precise voltage / temperature
/ SOC detection

DATASHEET

Model		Armor 5.12
Performance		
Cell technology		LFP (LiFePO ₄)
Battery usable energy [1]		5120 Wh
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
Communication		CAN / RS485 / RS232 / Wi-Fi
General Specification		
Dimension (W×D×H)	470×160×635 mm	
	18.5×63×25 inch	
Weight		48.8 kg (107.5 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		IP65
Cycle Life		6000 Cycles @ 80%DOD / 25°C / 0.5C 60% EOL
Warranty Period [4]		10 years (5 years product + 5 years' service)
Scalability		(Optional)
Application		Max. 15 batteries in parallel
Compatible inverters		ON Grid / ON Grid + Backup / OFF grid
Standard Compliance		
Compliance		UN38.3 / IEC62619 / IEC61000 (More available upon request)
Ordering and Delivery Parts		
Parts	Armor 5.12 Battery	
	Armor 5.12 Parallel cable	
	Armor 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.