



Innovation



Integrity



Win-win



Pragmatic



CORPORATE

BROCHURE 企业宣传手册

ONE-STOP ENERGY SOLUTION

深圳市旭弘创科技有限公司

Shenzhen Xuhongchuang Technology Co., Ltd.

51.2V LIFEP04 BATTERY 280Ah Rack-Mounted



Maximum 16 unit Paralleling

Up to 115kWh Energy Storage



Maximum 16 unit Paralleling

Up to 230kWh Energy Storage



» AVEpower Home Energy Storage

•Key Features

- Plug-in terminal design, fast installation available
- Under voltage automatically restart, fault alarm
- Remote software upgrade, easy maintenance
- High power charging/discharging @ 6000 cycles



•Specifications

Parameters	AVE-256280-J	AVE-512280-J
Nominal Energy (kWh)	7.168	14.336
Nominal Voltage (V)	25.6	51.2
Nominal Capacity (Ah)	280	280
Battery Type	LiFePO4	LiFePO4
Output Power (kW)	5.12	10.24
Voltage Range (V)	40.5~54.7	40.5~54.7
Charge Voltage (V)	53.2~54.7	53.2~54.7
Charge Current (A)	100	100
Discharge Current (A)	200	200
Charge Mode	CC-CV	
Communication	CAN/RS485/RS232	
Charge Temperature	0-55 °C	
Discharge Temperature	-20-55 °C	
Designed Life	10+Years	
Cycle Life	> 6000 (@25°C, 80% DOD)	
Weight (kg)	90	130

51.2V 16S LIFEP04 BATTERY

Vertical type



Maximum 16 unit Paralleling

Up to 230kWh Energy Storage



Maximum 16 unit Paralleling

Up to 260kWh Energy Storage



» AVEpower Home Energy Storage

•Key Features

- Plug-in terminal design , fast installation available
- Under voltage automatically restart, fault alarm
- Remote software upgrade, easy maintenance
- High power charging/discharging @ 6000 cycles



•Specifications

Parameters	AVE-512280-V	AVE-512314-V
Nominal Energy (kWh)	14.34	16.08
Nominal Voltage (V)	51.2	51.2
Nominal Capacity (Ah)	280	314
Battery Type	LiFePO4	LiFePO4
Output Power (kW)	10	10
Voltage Range (V)	44.8~58.4	44.8~58.4
Charge Voltage (V)	55.2~58.4	55.2~58.4
Charge Current (A)	100	100
Discharge Current (A)	200	200
Charge Mode	CC-CV	
Communication	CAN/RS485/RS232	
Charge Temperature	0-55 °C	
Discharge Temperature	-20-60 °C	
Designed Life	10+ Years	
Cycle Life	> 6000 (@25 °C , 80% DOD)	
Weight (kg)	130	130

51.2V 16S LIFEP04 BATTERY

Vertical type



Maximum 16 unit Paralleling

Up to 230kWh Energy Storage



Maximum 16 unit Paralleling

Up to 260kWh Energy Storage



» AVEpower Home Energy Storage

• Key Features

- Plug-in terminal design, fast installation available
- Under voltage automatically restart, fault alarm
- Remote software upgrade, easy maintenance
- High power charging/discharging @ 6000 cycles



• Specifications

Parameters	AVE-512280-V2	AVE-512314-V2
Nominal Energy (kWh)	14.34	16.08
Nominal Voltage (V)	51.2	51.2
Nominal Capacity (Ah)	280	314
Battery Type	LiFePO4	LiFePO4
Output Power (kW)	10	10
Voltage Range (V)	44.8~58.4	44.8~58.4
Charge Voltage (V)	55.2~58.4	55.2~58.4
Charge Current (A)	100	100
Discharge Current (A)	200	200
Charge Mode	CC-CV	
Communication	CAN/RS485/RS232	
Charge Temperature	0-55 °C	
Discharge Temperature	-20-60 °C	
Designed Life	10+ Years	
Cycle Life	> 6000 (@25 °C , 80% DOD)	
Weight (kg)	112	115

51.2V 16S LIFEP04 BATTERY

Vertical type



Maximum 16 unit Paralleling

Up to 230kWh Energy Storage



Maximum 16 unit Paralleling

Up to 260kWh Energy Storage



» AVEpower Home Energy Storage

•Key Features

- Plug-in terminal design, fast installation available
- Under voltage automatically restart, fault alarm
- Remote software upgrade, easy maintenance
- High power charging/discharging @ 6000 cycles



•Specifications

Parameters	AVE-512280-V2	AVE-512314-V2
Nominal Energy (kWh)	14.34	16.08
Nominal Voltage (V)	51.2	51.2
Nominal Capacity (Ah)	280	314
Battery Type	LiFePO4	LiFePO4
Output Power (kW)	10	10
Voltage Range (V)	44.8~58.4	44.8~58.4
Charge Voltage (V)	55.2~58.4	55.2~58.4
Charge Current (A)	100	100
Discharge Current (A)	200	200
Charge Mode	CC-CV	
Communication	CAN/RS485/RS232	
Charge Temperature	0-55 °C	
Discharge Temperature	-20-60 °C	
Designed Life	10+ Years	
Cycle Life	> 6000 (@25 °C , 80% DOD)	
Weight (kg)	110	120

51.2V 16S LIFEP04 BATTERY

All in one system



Maximum 16 unit Paralleling

Up to 230kWh Energy Storage



Maximum 16 unit Paralleling

Up to 260kWh Energy Storage



» AVEpower Home Energy Storage

• Key Features

- Plug-in terminal design , fast installation available
- Under voltage automatically restart, fault alarm
- Remote software upgrade, easy maintenance
- High power charging/discharging @ 6000 cycles



• Specifications

Parameters	AVE-512280-A
Nominal Energy (kWh)	14.34
Nominal Voltage (V)	51.2
Nominal Capacity (Ah)	280
Battery Type	LiFePO4
Inverter Output Power (Kw)	6.2
Voltage Range (V)	44.8~58.4
Charge Voltage (V)	55.2~58.4
Charge Current (A)	56
Discharge Current (A)	140
Charge Mode	CC-CV
Output Wave	Pure sine wave
Charge Temperature	0-55 °C
Discharge Temperature	-20-60 °C
Designed Life	10+ Years
Cycle Life	> 6000 (@25 °C , 80% DOD)
Weight (kg)	145

51.2V 16S LIFEP04 BATTERY

Wall-Mounted 5-10kWh



Maximum 16 unit Paralleling

Up to 80kWh Energy Storage



Maximum 16 unit Paralleling

Up to 160kWh Energy Storage



» AVEpower Powerwall

• Key Features

- Plug-in terminal design , fast installation available
- Under voltage automatically restart, fault alarm
- Remote software upgrade, easy maintenance
- High power charging/discharging @ 6000 cycles



• Specifications

Parameters	AVE-48100-B	AVE-48200-B
Nominal Energy (kWh)	5.12	10.24
Nominal Voltage (V)	51.2	51.2
Nominal Capacity (Ah)	100	200
Battery Type	LiFePO4	LiFePO4
Output Power (kW)	5.12	10.24
Voltage Range (V)	44.8~58.4	43.2~58.4
Charge Voltage (V)	55.2~58.4	56.8~58.4
Charge Current (A)	100	100
Discharge Current (A)	100	200
Charge Mode	CC-CV	
Communication	CAN/ RS485/ RS232	
Charge Temperature	0-55 °C	0-55 °C
Discharge Temperature	-20-60 °C	-20-55 °C
Designed Life	10+ Years	
Cycle Life	> 6000 (@25°C , 80% DOD)	
Weight (kg)	50	100

51.2V 16S LIFEP04 BATTERY Wall-Mounted



Maximum 16 unit Paralleling

Up to 82kWh Energy Storage

Maximum 16 unit Paralleling

Up to 164kWh Energy Storage

» AVEpower Powerwall

• Key Features

- Plug-in terminal design , fast installation available
- Under voltage automatically restart, fault alarm
- Remote software upgrade, easy maintenance
- High power charging/discharging @ 6000 cycles



• Specifications


Parameters	AVE-512100-W	AVE-512200-W
Nominal Energy (kWh)	5.12	10.24
Nominal Voltage (V)	51.2	51.2
Nominal Capacity (Ah)	100	200
Battery Type	LiFePO4	LiFePO4
Output Power (kW)	5.12	10.24
Voltage Range (V)	40.5~54.7	40.5~54.7
Charge Voltage (V)	53.2~54.7	53.2~54.7
Charge Current (A)	100	100
Discharge Current (A)	100	200
Charge Mode	CC-CV	
Communication	CAN/ RS485/ RS232	
Charge Temperature	0 - 55 °C	
Discharge Temperature	-20 - 55 °C	
Designed Life	10+ Years	
Cycle Life	> 6000 (@25°C , 80% DOD)	
Weight (kg)	49	97

LIFEPO4 STACKED BATTERY

51.2V Paralleling MAX. 16 Unit



• Specifications




Single Module	Parameters	AVE-48100-S
 Dimension (L*W*H) 530*460*190	Battery type	LiFePO4
	Nominal Energy (kWh)	5.12
	Nominal Voltage (V)	51.2
	Nominal Capacity (Ah)	100
	Voltage Range (V)	44.8~58.4
	Charge Voltage (V)	56.8-58.4
	Charge Current (A)	100
	Discharge Current [A]	100
	Communication	CAN/ RS485/RS232
	Operation Temperature	0°C~55°C
	Discharge Temperature	-20°C~60°C
	Designed Life	10+ Years
	Cycle Life	> 6000 (@25°C , 80% DOD)
Weight (kg)	50	

» AVEPOWER Stackable Battery

• Key Features

- Remotely monitored by Bluetooth/Wifi system and managed by APP to check the battery working status
- Flexibly and easy installation
- Multi-level software and hardware protection
- Cycles: More than 6000 cycle life with 80% DOD
- Certificates: CE, UN38.3, MSDS
- Suitable for both off-grid and hybrid inverters, and protocol match well
- The fault diagnosis and isolating function for battery module protects the system
- Programmable charge and discharge control
- Elegant design, Plug and Play
- Design Life >10 years @25°C

• Specifications


Parameters	GPSB-48200-2P	GPSB-48300-3P	GPSB-48400-4P
Battery module quantity			
Battery module energy (kWh)	10.24	15.36	20.48
Module Number	2	3	4
Rated Voltage (V)	51.2	51.2	51.2
Voltage Range (V)	44.8~58.4	44.8~58.4	44.8~58.4
Charge Current (A)	200	300	400
Max. Discharge Current (A)	200	300	400
Dimension:(W*D*H)	600*390*880mm	1400*390*880mm	2200*390*880mm
Weight (kg)	205	410	615
Environment Parameter			
Charge Temperature Range (°C)	0°C~50°C		
Discharge Temperature Range (°C)	-20°C~55°C		
Installation Method	Floor-mount		
Service Life			
Cycle Life	>6000 (@25°C , 80% DOD)		
Design Life (Year)	10		
Certification			
Safety & Certification	CE		
Transportation	UN38.3/MSDS		

LIFEPO4 STACKED BATTERY

51.2V Paralleling MAX. 16 Unit



» Single Module



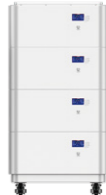
Single Module	Parameters	AVE-51280-S
 <p>Dimension (L*W*H) 700*520*277mm</p>	Battery type	LiFePO4
	Nominal Energy (kWh)	14.44
	Nominal Voltage (V)	51.2
	Nominal Capacity (Ah)	280
	Voltage Range (V)	44.8~58.4
	Charge Voltage (V)	56.8-58.4
	Charge Current (A)	100
	Discharge Current [A]	200
	Communication	CAN/ RS485/ RS232
	Operation Temperature	0°C~55°C
	Discharge Temperature	-20°C~60°C
	Designed Life	10+ Years
	Cycle Life	> 6000 (@25°C , 80% DOD)
Weight (kg)	130	

» AVEpower Stackable Battery

• Key Features

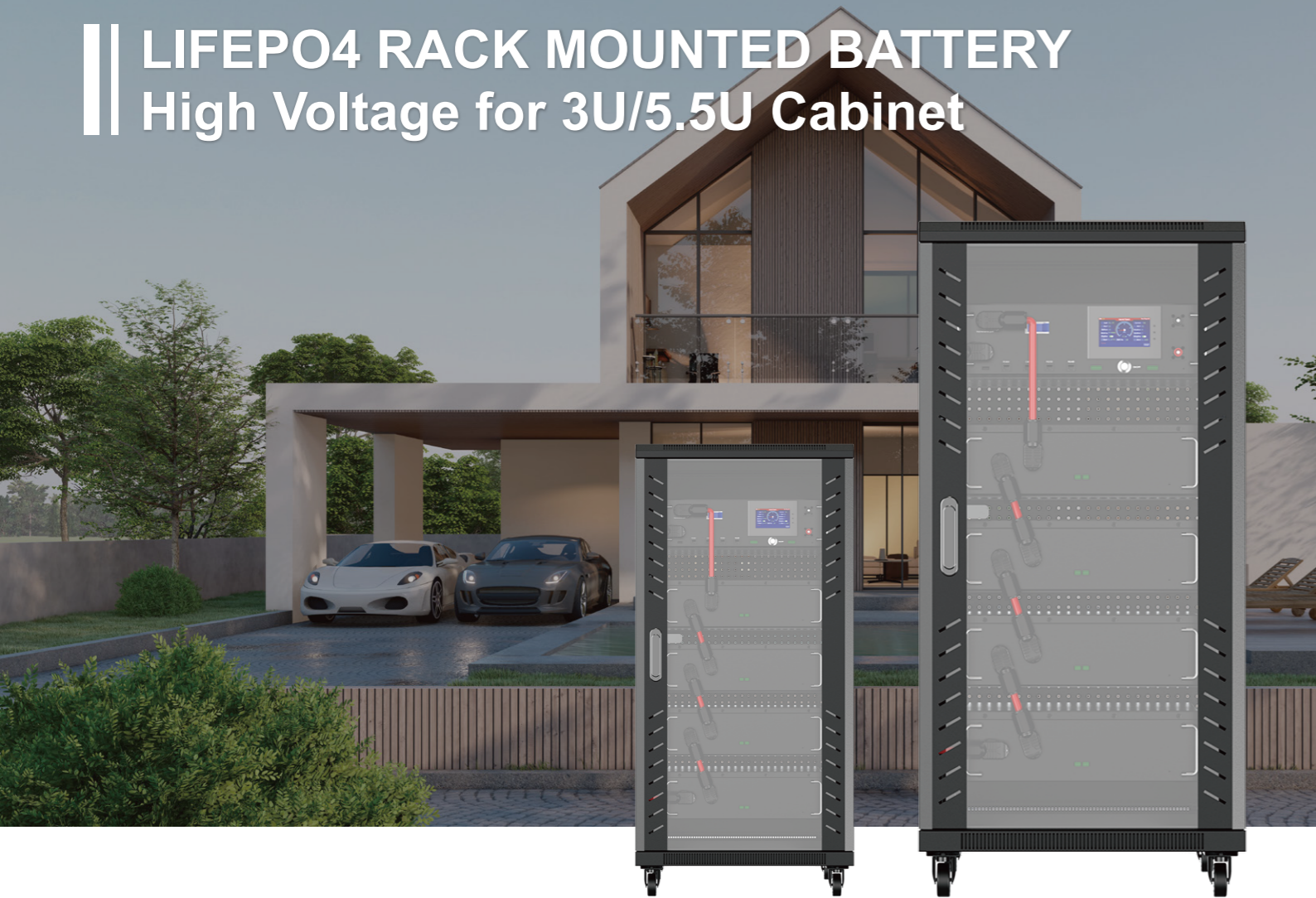
- Remotely monitored by Bluetooth/Wifi/GSM system and managed by APP to check the battery working status
- Flexibly and easy installation
- Multi-level software and hardware protection
- Cycles: More than 6000 cycle life with 80% DOD
- Certificates: CE, UN38.3, MSDS
- Suitable for both off-grid and hybrid inverters, and protocol match well
- The fault diagnosis and isolating function for battery module protects the system
- Programmable charge and discharge control
- Elegant design, Plug and Play
- Design Life >10 years @25°C

• Specifications

Parameters	AVE-512280-2P	AVE-512280-3P	AVE-512280-4P
Battery module quantity			
Battery module energy (kWh)	28.67	43	57.34
Module Number	2	3	4
Rated Voltage (V)	51.2	51.2	51.2
Voltage Range (V)	44.8~58.4	44.8~58.4	44.8~58.4
Charge Current (A)	200	300	400
Max. Discharge Current (A)	400	600	800
Dimension:(W*D*H)	700*520*554	700*520*831	700*520*1108
Weight (kg)	260	390	520
Environment Parameter			
Charge Temperature Range (°C)	0°C~50°C		
Discharge Temperature Range (°C)	-20°C~55°C		
Installation Method	Floor-mount		
Service Life			
Cycle Life	> 6000 (@25°C , 80% DOD)		
Design Life (Year)	10		
Certification			
Safety & Certification	CE		
Transportation	UN38.3/MSDS		

LIFEPO4 RACK MOUNTED BATTERY

High Voltage for 3U/5.5U Cabinet



» Single Module



Single Battery Module	AVE-512100-H	AVE-512280-H
Battery type	LiFePO4	LiFePO4
Nominal Energy (kWh)	5.12	14.34
Nominal Voltage (V)	51.2	51.2
Nominal Capacity (Ah)	100	280
Voltage Range (V)	43.2-58.4	43.2-58.4
Charge Voltage (V)	56.8-58.4	56.8-58.4
Charge Current (A)	50	100
Discharge Current [A]	80	100
Communication	CAN/RS485	CAN/RS485
Charge Temperature	0°C-50°C	0°C-50°C
Discharge Temperature	-20°C-55°C	-20°C-55°C
Designed Life	10+ Years	10+ Years
Cycle Life	> 6000	> 6000
Weight (kg)	44	118

» AVEpower High Voltage Rack Battery

• Key Features

- Suitable for both off-grid and hybrid inverters, and protocol match well
- The fault diagnosis and isolating function for battery module protects the system
- Programmable charge and discharge control
- Elegant design, Plug and Play
- Design Life >10 years @25 °C
- Remotely monitored by Bluetooth/Wifi system and managed by APP to check the battery working status
- Flexibly and easy installation
- Multi-level software and hardware protection
- Cycles: More than 6000 cycle life with 80% DOD
- Certificates:CE, UN38.3, MSDS

• Embedded Solution

Parameters	AVE-512100-H Solution	AVE-512280-H Solution
Battery module quantity		
Nominal Energy (kWh)	20.48	57.34
Nominal Voltage	51.2/48	51.2
Battery Module	AVE-512100-H	AVE-512280-H
Max. number of battery module (PCS)	16	16
Nominal Capacity (Ah)	1600	4480
Voltage Range (V)	43.2~58.4	43.2~58.4
Charge Voltage (V)	56.8-58.4	56.8-58.4
Charge/discharge Current (A)	80~320	100~1600
Environment Parameter		
Cooling Mode	Natural cooling (Fanless)	
Charge Temperature Range (°C)	0°C~50°C	
Discharge Temperature Range (°C)	-20°C~55°C	
Others		
Connection Port	Top and Bottom	
Communication	CAN/ RS485	
Safety & Certification	UN38.3、MSDS、CE	
Designed Life	10+ Years	
Dimension (L*W*H)	800*600*990mm (18U)	800*600*1388mm (27U)
Weight (kg)	270 (18U)	592 (27U)



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