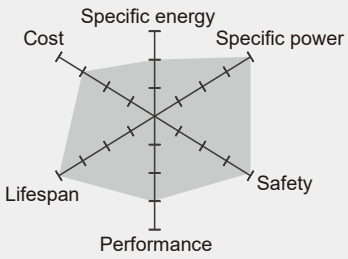
Alpha·ESS

Battery System Designed For
PV Industrial & Commercial Application

Battery Series
M48112-S

Key Features

- Modular
- Plug & play
- Safe
- Long lifespan



CHEMISTRY

AlphaESS only goes with LFP for safest operation and longest cycle-life

Whilst Alpha's batteries are slightly larger per physical capacity versus other types of Li-Ion used in electronics and EVs, they are easily banked in parallel close together because they don't suffer heat issues and thermal runaway. We have chosen LiFePO4 for their superior life, safety and environmental performance.

About AlphaESS

As one of the earliest pioneers in energy storage market with lithium iron technology, AlphaESS has a vision to pave the path for everyone in the world to enjoy clean energy one day.

AlphaESS is a multinational company that currently has more than 10'000 residential and commercial systems running in 30 countries globally and its products are accredited by IEC, TÜV, CEC and many other international standards.

All AlphaESS energy systems are integrated with smart energy management solutions. AlphaESS is committed to revolutionize the future energy network through our patented German technologies.

Official Website | Scan to download APP(IOS/Android) | Twitter | FaceBook

Physical	
Model	M48112-S
Battery Type	LFP (LiFePO4)
Battery Manufacturer	EVE ENERGY VERY ENDURE
System Weight	65 kg
Dimension (W x D x H)	450 x 580 x 165 mm
IP Protection	IP20
Warranty	5 Year Product Warranty, 10 Year Performance Warranty
Electrical	
Energy Capacity	5.7 kWh
Usable Capacity	5.2 kWh
Depth of Discharge (DoD)	90%
Nominal Voltage	51.2 V
Operating Voltage Range	48 ~ 57.6 V
Internal Resistance	≤ 30 mΩ
Cycle Life	≥ 6000
Operation	
Max. Charging Current	112 A (1C)
Max. Discharging Current	112 A (1C)
Operating Temperature Range	-10 °C ~ 50°C*
Humidity	15% ~ 85%
BMS	
Modules Connection	4 ~ 15 in series
Capacity	22.9 / 28.6 / 34.4 / 40.1 / 45.9 / 51.6 / 57.3 / 63.1 / 68.8 / 74.5 / 80.2 / 86.0 kWh
Power Consumption	<2 W (Work), <100 mW (Sleep)
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature.
Communication	CAN and RS-485 compatible
BMU Model	HV900112 (TOP BMU required with more than one parallel cluster)

*When the temperature is below 0 °C or above 40 °C, the performance will be limited.

Alpha·ESS / Alpha ESS Co., Ltd.

Headquarter: Alpha ESS Co., Ltd.
☎ +86 (0) 513 806 068 91
✉ info@alpha-ess.com
e www.alpha-ess.com
JiuHua Road 888, Nantong High-Tech Industrial Development Zone, Nantong City, 226300

Germany: Alpha ESS Europe GmbH
☎ +49 (0) 6103 / 459 160-1
✉ europe@alpha-ess.de
e www.alpha-ess.de
Paul-Ehrlich-Straße 1a, 63225 Langen, Hessen

Australia: Alpha ESS Australia Pty. Ltd.
☎ +61 (0) 402 500 520 (Sales)
+61 1300 968 933 (Technical Support)
✉ australia@alpha-ess.com
e www.alpha-ess.com.au
Suite 1, Level 1, 530 Botany Road, Alexandria, NSW, 2015

Italy: Alpha ESS Italy S.r.l.
☎ +39 (0) 599 239 50
✉ info@alpha-ess.it
e www.alpha-ess.it
Via Loda,17-41013 Castelfranco Emilia (MO)