

YOUR
SMART
ENERGY



BATTERY M4856-S

HOME SERIE

CAPACITY ►

2.9 kWh modular



Modular


Outdoor / Indoor

Safe

Long lifespan

BATTERY M4856-S



Model	M4856-S
Physical	
Battery Type	LFP (LiFePO4)
Cell Manufacturer	
System Weight	42 kg
Dimension (W x D x H)	610 x 236 x 303 mm
IP Protection	IP21 (Indoor) / IP65 (outdoor)
Warranty	5 Year Product Warranty, 10 Year Performance Warranty
Electrical	
Energy Capacity	2.9 kWh
Usable Capacity	2.6 kWh
Depth of Discharge (DoD)	90%
Nominal Voltage	51.2 V
Operating Voltage Range	48 ~ 56.3 V
Internal Resistance	≤ 30 mΩ
Cycle Life	≥ 6000
Operation	
Max. Charging Current	56 A (1C)
Max. Discharging Current	56 A (1C)
Operating Temperature Range	-10 °C ~ 50 °C*
Humidity	15% ~ 85%
BMS	
Modules Connection	4 ~ 8 in series
Capacity	11.5 / 14.4 / 17.2 / 20.1 / 23.0 kWh
Usable Capacity	10.3 / 12.9 / 15.5 / 18.1 / 20.7 kWh
BMU Model	HV50056
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

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



Headquarter: Alpha ESS Co., Ltd.
 ☎ +86 (0) 513 8060 6891
 ✉ info@alpha-ess.com
 🌐 www.alpha-ess.com
 📍 Jiuhua Road 888, Nantong High-Tech Industrial Development Zone, Nantong City, 226300

Alpha ESS Suzhou Co., Ltd.
 ☎ +86 (0) 512 6828 7609
 ✉ info@alpha-ess.com
 🌐 www.alpha-ess.com
 📍 Level 15, SIP 158 Wangdun Road SIP Suzhou, 215028

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

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

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

Alpha ESS Korea Co., Ltd.
 ☎ +82 64 721 2004
 ✉ korea@alpha-ess.com
 📍 2F, 19-4, Nohyeong 11-gil, Jeju-si, Jeju-do, Republic of Korea