

YOUR
SMART
ENERGY



BATTERY M38210-S

COMMERCIAL &
INDUSTRIAL SERIES

CAPACITY ►

8.1 kWh modular



Modular

Plug & play

Safe

Long lifespan

BATTERY M38210-S



Model	M38210-S
Physical	
Battery Type	LFP (LiFePO4)
Cell Manufacturer	EVE
System Weight	62 kg
Dimension (W x D x H)	326 x 560 x 231 mm
IP Protection	IP20
Warranty	3 Year Product Warranty, 10 Year Performance Warranty
Electrical	
Energy Capacity	8.1 kWh
Usable Capacity	7.3 kWh
Depth of Discharge (DoD)	90%
Nominal Voltage	38.4 V
Operating Voltage Range	36 ~ 42.2 V
Internal Resistance	≤ 10 mΩ
Cycle Life	≥ 10000 to 90%DOD discharge 1C at 25°C
Operation	
Max. Charging Current	105 A
Max. Discharging Current	105 A
Operating Temperature Range	-10 °C ~ 50 °C*
Relative Humidity	15% ~ 85%
BMS	
Modules Connection	6 ~ 20 in series
Capacity	48.4 / 56.4 / 64.5 / 72.6 / 80.6 / 88.7 / 96.8 / 104.8 / 112.9 / 121.0 / 129.0 / 137.1 / 145.2 / 153.2 / 161.3 kWh
Power Consumption	BMU Unit: ≤ 15 W (Work), ≤ 10 mW (Sleep) Battery: ≤ 0.6 W (Work), ≤ 10 mW (Sleep)
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature.
Communication	CAN and RS-485 compatible
BMU Model	HV900105 (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.



Headquarter: Alpha ESS Co., Ltd.

☎ +86 513 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.

☎ +86 512 6828 7609
✉ info@alpha-ess.com
🌐 www.alpha-ess.com
📍 Building 10-A, Canal Town Industrial Park, 99 Taihu E Rd, Wuzhong District, Suzhou 215000

Australia: Alpha ESS Australia Pty. Ltd.

☎ +61 402 500 520 (Sales)
+61 1300 968 933 (Technical Support)
✉ australia@alpha-ess.com
🌐 www.alpha-ess.com.au
📍 Unit 1, 2 Ralph Street Alexandria NSW 2015

Germany: Alpha ESS Europe GmbH

☎ +49 6103 4591 601
✉ europe@alpha-ess.de
🌐 www.alpha-ess.de
📍 Paul-Ehrlich-Straße 1a, D-63225 Langen, Hessen

Italy: Alpha ESS Italy S.r.l.

☎ +39 599 239 50
✉ info@alpha-ess.it
🌐 www.alpha-ess.it
📍 Via Loda, 17-41013 Castelfranco Emilia (MO)

Korea: 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

UK: Alpha ESS UK Ltd.

✉ uk@alpha-ess.com
📍 Drake House, Long Street, Dursley, gl11 4hh