

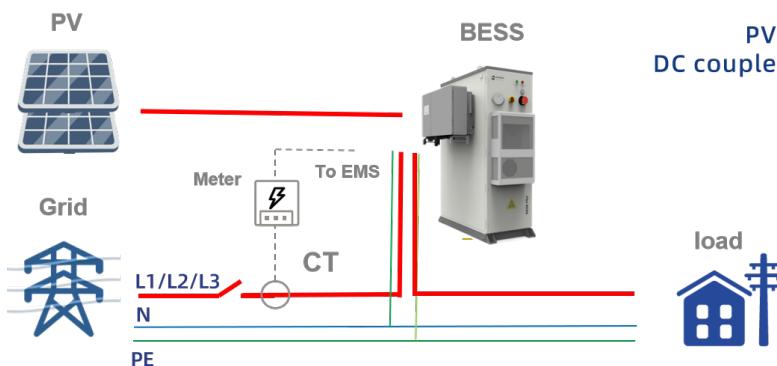
# B107

## Flex BESS M215 Battery Cabinet



### ■ Introduction

The B107 battery cabinet is specially designed for **outdoor applications**. It is integrated with outdoor PCS and used in **large families and small businesses**. The battery cabinet adopts 280Ah battery cells with a 1P120S configuration. A single cabinet with 5 Packs has a capacity of 107kWh. Featuring a highly integrated design and plug-and-play functionality, it reduces on-site construction work.



### ■ Application (with PCS)

- Back up power for frequent mains outages
- PV Self-consumption
- Peak shaving
- Power expansion
- On-Off grid

### ■ COST-EFFECTIVENESS

- Fully integrated for plug and play on site to reduce costs
- Fan cooling pack facilitates maintenance

### ■ SMART AND ROBUST

- Deep, thorough insights into battery, PCS and system data facilitate alarm management and maintenance with a innovative communication middleware
- Near-distal intelligent wireless operation and one-key remote upgrade, to provide boundless service

### ■ SAFE AND RELIABLE

- The **Solid-insulated pack** provides strong electrical safety
- PACK, RACK ,PCS (3th party) three-level over current protection
- Air condition cooling extends battery life
- **DC auxiliary powers** provide a black start

Technical data		FlexBESS M215-E- B107
DC side		
Cell type		LFP 3.2 V / 280 Ah
System battery configuration		1P120S
Nominal capacity		107.5kWh
Nominal voltage range		336V--384V-438V
AC side ( on-grid )		integrated with SINEXCEL ISUNA L50K-TH PCS)
Nominal power		50 kW
Nominal voltage		400 V 3P+N+PE
Voltage range		340 V ~ 440 V
Nominal frequency		50 Hz / 60 Hz
Frequency range		45 Hz ~ 55 Hz / 55 Hz ~ 65 Hz
Max.THD of current		< 3 % ( Nominal power )
Power factor range		1.0 leading ~ 1.0 lagging
AC side ( off-grid ) *		integrated with SINEXCEL ISUNA L50K-TH PCS
Nominal voltage		400 V
Nominal frequency		50 Hz / 60 Hz
Max.THD of voltage		< 3 % ( Linear load )
Unbalance load capacity		100 %
PV side		integrated with SINEXCEL ISUNA L50K-TH PCS
Max Power		4X18.75kW
PV Max voltage		800V
start Voltage		180V
MPPT voltage range		140V-800V
Max current		4X60A
System parameter		
PCS efficiency		98%
System efficiency (charge or discharge)		92%
Dimensions ( W * H * D )		650 mm * 1950 mm * 1486 mm
Weight		1130kg (1218kg with PCS)
Degree of protection		IP54
Auxiliary power supply		Internal DC
Anti-corrosion degree		C3 ( Default )
Operation humidity range		0 % ~ 100 %
Operation temperature range		-30 °C ~ 50 °C ( > 45 °C derating )
Max. operating altitude		3000 m
Temperature control method		Forced air cooling
Noise		≤ 70 dB ( A ) @ 1m
Fire suppression system		Smoke detector, Heat detector, Alarm sounder
Communication interface		Ethernet
Communication protocol		Modbus TCP
Standard		IEC 62619, IEC 62477, IEC 61000, UN 38.3

*Note: The product pictures are for reference only. Configurations vary by region, and changes to the actual product will not be notified separately.*