



EB-512 Series

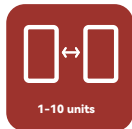
Low Voltage Battery System



CELL+ Optimization

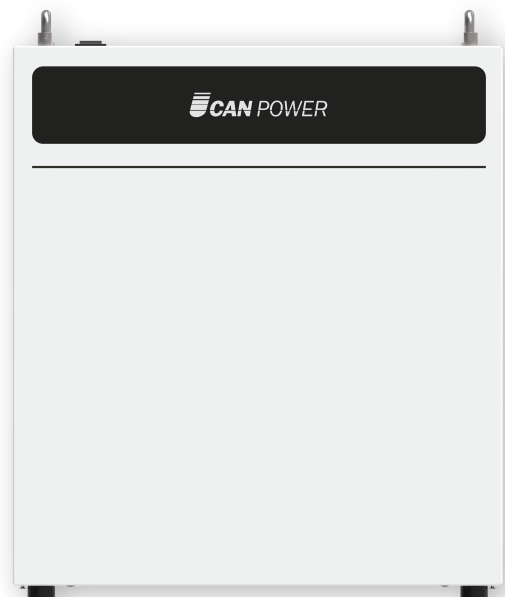


4-optional mounting



1-10 units

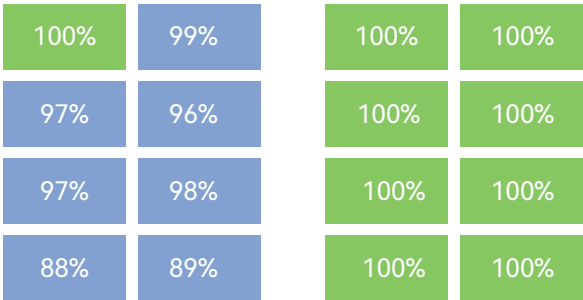
- Cell-level active equalisation to improve overall battery life
- Easy to upscale, Up to 10 inparallel connection
- One module, four optional mounting options
- High quality lithium iron phosphate cells
- Compatible with many brands of inverter protocols



Built-in cell-level active balance module to enhance battery performance and cycle life

During The Charging Progress

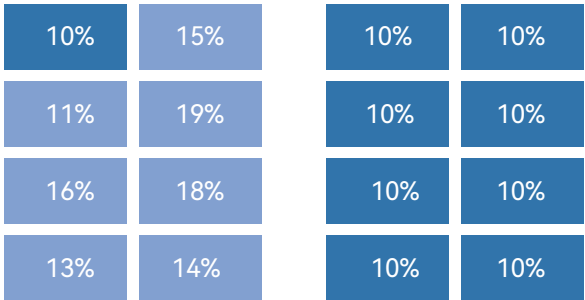
No active balance system	Built-in active balance system
Display SOC 100%	Display SOC 100%
Actual SOC 95.5%	Actual SOC 100%



Non-active balance system: The lower performing cells are prioritised for filling, at which point the system defaults to 100% SOC and no further charging takes place. However, the actual system SOC is only 95.5 per cent.

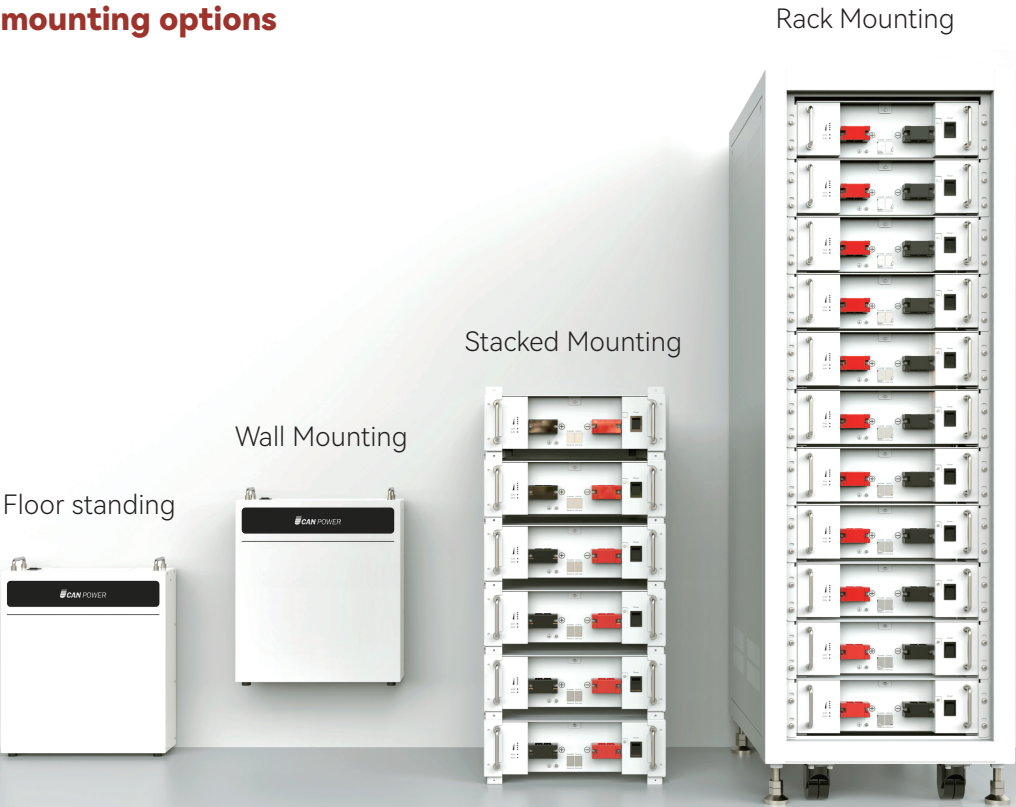
During The Discharging Progress

No active balance system	Built-in active balance system
Display SOC 10%	Display SOC 10%
Actual SOC 14.5%	Actual SOC 10%

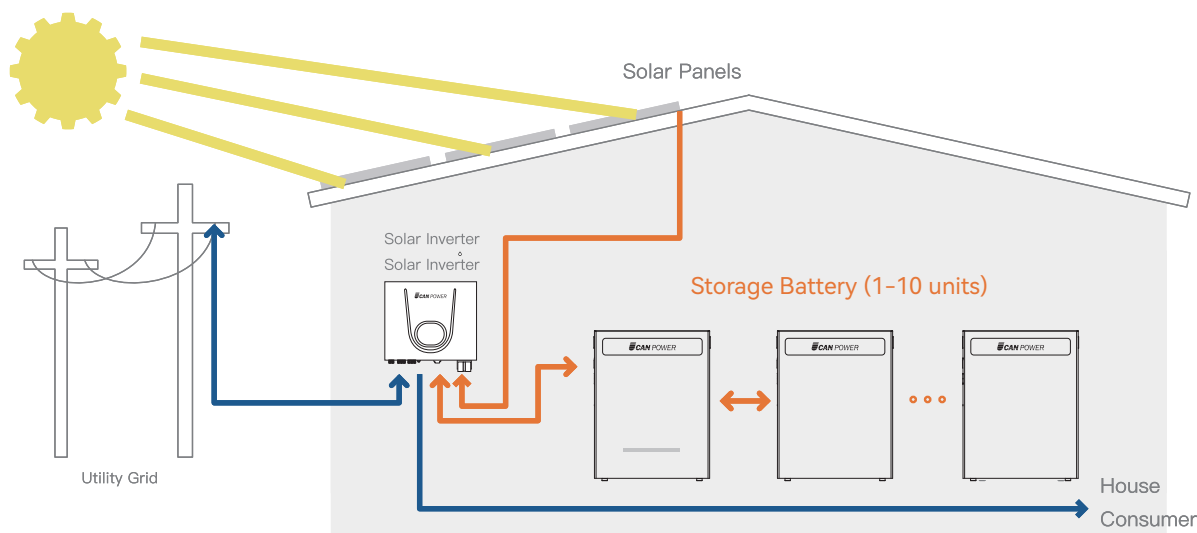


Non-active balance system : poorly performing cells are prioritised to the lowest SOC limit (e.g. 10%), then the system defaults to a SOC of 10% and no more discharging. However, with an actual SOC of 14.5%, there is still room for discharge.

One module, four optional mounting options



Up to 10 units in parallel, expand to 51.2kWh



Model	EB-512
Electrical Parameter	
Battery Type	LiFePO4
Battery Capacity per Kit [Wh]	5.12kWh
Usable Energy [Wh]	4.6kWh
Rated Voltage [V]	51.2V
Voltage range [V]	44.8V~57.6V
Max. Charging and Discharging Rate	100A
Depth Of Discharge [DOD]	≤90%
Cycle Life (25°C ,0.5C)	≥6000 times,80% Capacity retention
Scalability	Yes
General Data	
Communication Mode	RS485/CAN2.0
Operating Temperature Range	0~50°C (Charge)/-10~50°C(Discharge)
Storage Temperature Range	-15°C~60°C
Cooling Method	Natural Convection
Altitude	<1000m
Ambient Humidity	20-95% non-condensing
Noise[dBA]	<25
Ingress Protection	IP20
Dimensions [H*W*D]	549*368*135mm
Weight	50kg
Installation Methods	Floor Standing, Wall Mounted, Rack Mounted, Stacked Mounting