Powering Global Connections!

POWER-512 Series

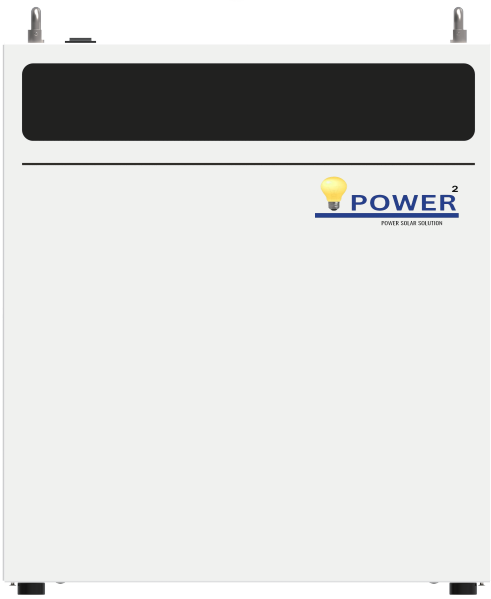
Low Voltage Battery System

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
Display SOC 100%
Actual SOC 95.5%

100%	99%
97%	96%
97%	98%
88%	89%

Built-in active balance system
Display SOC 100%
Actual SOC 100%

100%	100%
100%	100%
100%	100%
100%	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
Display SOC 10%
Actual SOC 14.5%

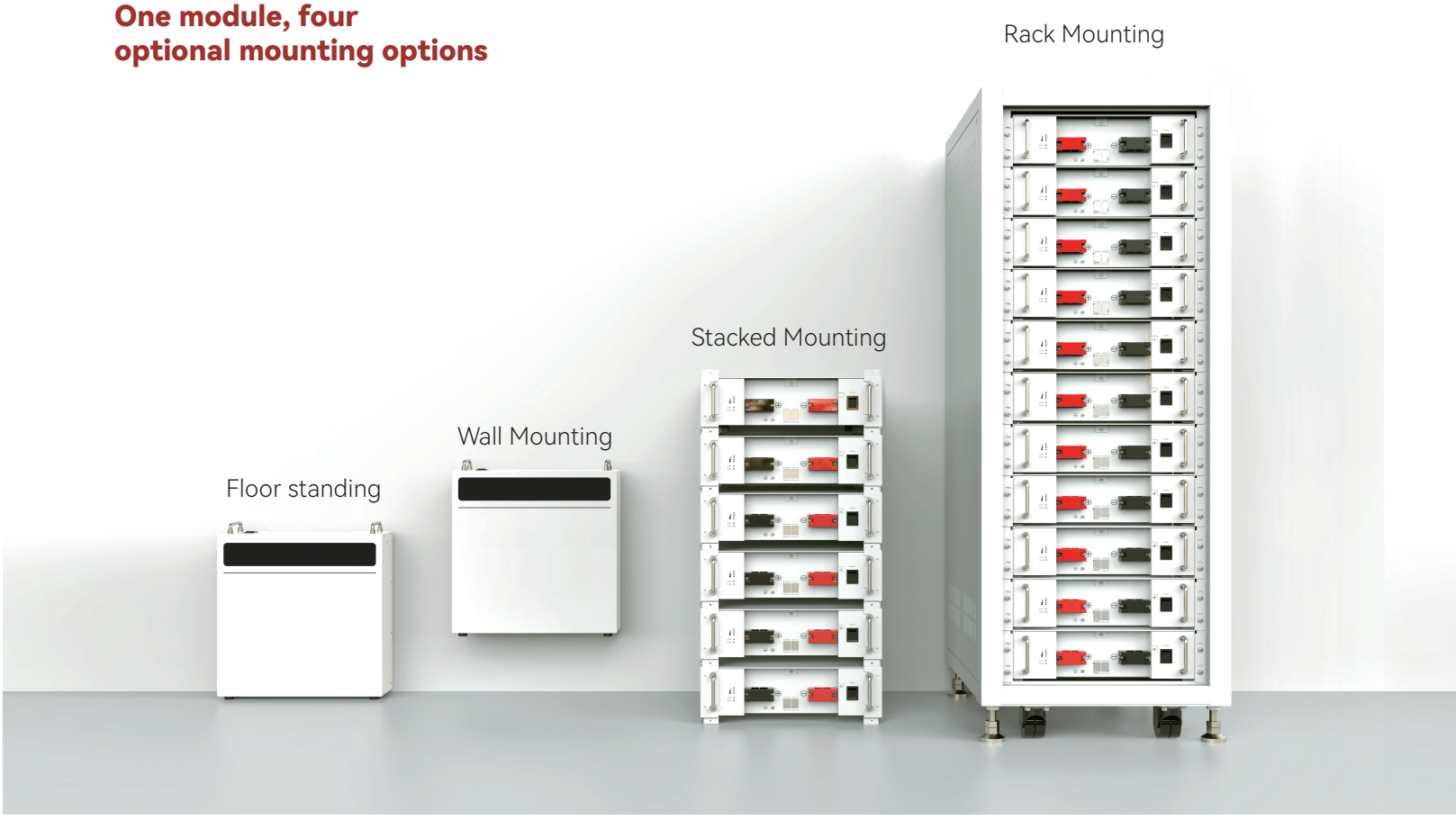
10%	15%
11%	19%
16%	18%
13%	14%

Built-in active balance system
Display SOC 10%
Actual SOC 10%

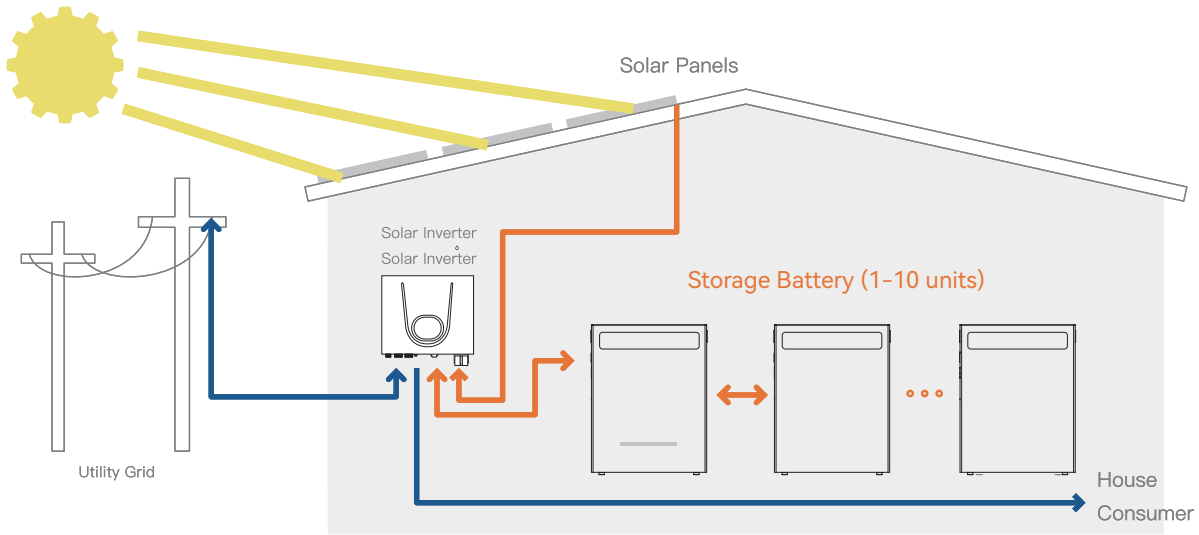
10%	10%
10%	10%
10%	10%
10%	10%

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	POWER-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℃ ,0.5C)	≥6000 times,80% Capacity retention
Scalability	Yes
General Data	
Communication Mode	RS485/CAN2.0
Operating Temperature Range	0~50℃ (Charge)/-10~50℃(Discharge)
Storage Temperature Range	-15℃~60℃
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