



51.2V 100Ah 5kWh battery Storage System  
One module, four optional mounting options

# TRANSFORMER 5



**Cell-active balancing**  
Improve overall battery life  
Up to 10 units in parallel  
**Expand to 51.2kWh**

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

### During The Charging Progress

Non-active balance system      Built-in active balance system

Display SOC 100%  
Actual SOC 95.5%

Display SOC 100%  
Actual SOC 100%

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

Non-active balance system      Built-in active balance system

Display SOC 10%  
Actual SOC 14.5%

Display SOC 10%  
Actual SOC 10%

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

## System Parameters

Model	TS5
<b>Electrical Parameter</b>	
Battery Type	LiFePO4
Battery Capacity per Kit [Wh]	5.12kWh
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
<b>General Data</b>	
Communication Mode	RS232/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 ,Stackable