Container Energy Storage System

- High degree of system integration, integrated battery management system, PCS, temperature control system, fire control system, access control system, data monitoring system, AC and DC power distribution, lighting system, etc.
- Customizable design to meet different customer needs.
- Third-level BMS system architecture, safe and reliable.
- The charging mode includes pre-charging, constant-current charging,constant-volt charging.
- The energy storage system has perfect functions of communication, monitoring, management, control, early warning and protection. It operates continuously and safely for a long time. It can detect the running state of the system through the upper computer. It has abundant data analysis ability and emergency power supply function.



Model	TF50KW/100KWh-Air Cooling-A	TF100KW/215KWh-Air Cooling-A	TF100KW/215KWh-Air Cooling-B
Battery Capacity	100KWh	215KWh	215KWH
Battery Working Voltage Range	582.4~748.8V	582.4~748.8V	582.4~748.8V
Cooling	Air	Air	Air
BMS Communication Interface	RS485/CAN	RS485/CAN	RS485/CAN
PV Side Parameters			
PV Input volt Range			200~850V
MPPT			1 or 2
Max DC current			100A
AC Side Parameters			
Rated AC Power	50KW	100KW	100KW
Max AC Power	50KW	100KW	100KW
Rated Current	360A	722A	722A
Max Output Current	400A	800A	800A
DC Current Component	< 0.5 %	< 0.5 %	< 0.5 %
THDI	< 3 %	< 3 %	< 3 %
Rated AC Output Voltage	400V	400V	400V
AC Output Voltage Range	320V-460V	320V-460V	320V-460V
Rated Frequency	50/60Hz	50/60Hz	50/60Hz
Frequency Range	45-55/55-65Hz	45-55/55-65Hz	45-55/55-65Hz
PF	1lagging-1leading	1lagging-1leading	1lagging-1leading
Transformer	No	No	No
General Information			
Protection Degree	IP65	IP65	IP65
Fire Fighting System	Yes	Yes	Yes
Running Time (Full Power)	3-4h	5-6h	5-6h
Working Temperature	-20ºC~+55ºC	-20ºC~+55ºC	-20ºC~+55ºC
Dimension (W*D*H)	10 ft container	10 ft container	170*120*21 0cm
Weight	8000Kg	10000Kg	10000Kg
Pcs Communication Mode	RS485, CAN，TCP/IP	RS485, CAN，TCP/IP	RS485, CAN，TCP/IP
Pcs Communication Protocol	Modbus RTU, Modbus TCP, IEC104	Modbus RTU, Modbus TCP, IEC104	Modbus RTU, Modbus TCP, IEC104
Pcs Unit Cooling Mode	Forced air	Forced air	Forced air
Battery Unit Cooling Mode	Air conditioning cooling	Air conditioning cooling	Air conditioning cooling
Max Altitude	4500 m (derated above 3000m)	4500 m (derated above 3000m)	4500 m (derated above 3000m)
Relative Humidity	0-95% non-condensing	0-95% non-condensing	0-95% non-condensing