

Container Energy Storage

INDUSTRIAL



These systems save costs by balancing peak and valley power consumption. With efficient conversion, deep power supply, seamless switching, real-time monitoring, and multi-level protection, they offer comprehensive power management and intelligent control. Featuring multiple working modes and rapid response, container energy storage systems provide optimal performance and flexibility.



Technical indicators	HL525KWH-250	HL1051KWH-250
Battery Parameter		
Battery Model	3.2V120Ah	3.2V120Ah
System Battery Configuration	228S6P	228S12P
Rated Capacity	525kWh	1051kWh
Voltage Range	616-832V	616-832V
BMS Communication Interface	Ethernet,RS485	Ethernet,RS485
BMS Protocol	Modbus RTU , Modbus TCP	Modbus RTU , Modbus TCP

AC Side Parameter		
Rated Power	250kVA	250kVA
MAX OUTPUT	275kVA	275kVA
THID	< 3% (At rated power)	< 3% (At rated power)
DC Component	< 0.5% (At rated power)	< 0.5% (At rated power)
Rated Output Voltage	400V	400V
Grid Voltage Range	310-450V	310-450V
Power Factor	> 0.99 (At rated power)	> 0.99 (At rated power)
Adjustable Range of Power Factor	0.9 (Leading)-0.9 (Lagging)	0.9 (Leading)-0.9 (Lagging)
Rated Grid Frequency	50Hz	50Hz
Power Grid Frequency Range	45-55Hz	45-55Hz
Isolation Way	Transformer Isolation	Transformer Isolation
Off Grid Rated Output Voltage	400V	400V
Distortion Rate of Off Grid Output Voltage	< 3% (Linear Load)	< 3% (Linear Load)

System Parameter		
Inverter Carton Size	600*900* 1500mm	600*900*1500mm
Battery Container Size	600*600*2000mm	600*1000*2000mm
Weight of Converter Container	2.8T	2.8T
Weight of battery container (With battery/Without battery)	9.6T/5.0T	(9.6T/5.0T)*2
IP Code	IP54	IP54
Operating Temperature Range	-30 ~ +50 °C	-30 ~ +50 °C
Operating Humidity Range	0 ~ 95% (Non-condensing)	0 ~ 95% (Non-condensing)
Max Working Altitude	2000m (>2000m Frequency reduction required)	2000m (>2000m Frequency reduction required)
Battery Temperature Control Mode	Industrial temperature controlled air conditioner	Industrial temperature controlled air conditioner
Inverter Cooling Mode	Temperature controlled forced air cooling	Temperature controlled forced air cooling
Fire Alarm System (Battery Container)	FM200	FM200
System Communication Interface	Ethernet,RS485	Ethernet,RS485
System Communication Protocol	Modbus RTU , Modbus TCP , IEC 104	Modbus RTU , Modbus TCP , IEC 104