

LI-ION BATTERY

INDOOR FLOOR MOUNTED LI-ION BATTERY INDOOR WALL MOUNTED LI-ION BATTERY



SAFETY

- + Long life type prismatic LiFePO4 cells, suitable for energy storage application.
- + Low voltage system, safety for application.
- + Cell certification: IEC62619, UL1973, UL9540A, ROHS
- + Battery certification: UN38.3, MSDS, CE

DESIGN

- + Indoor wall mounted design, IP20 class.
- + Flexible and easily installation.
- + -20~+55°C widely temperature range.
- + 4.3" touch LCD screen.
- + Maintenance free.

SCALABILITY

- + Parallel support for more energy.
- + Communication compatible with the major inverter manufacturers.
- + Change different inverter protocol by LCD.

BATTERY MANAGEMENT SYSTEM

- + Independent protection for charge and discharge.
- + LCD display for detailed battery information.
- + OVP, LVP, OCP, OTP, LTP, Short-circuit protection.
- + RS485, CAN communication port for inverter and Link in & out for battery to battery communication.

LI-ION BATTERY

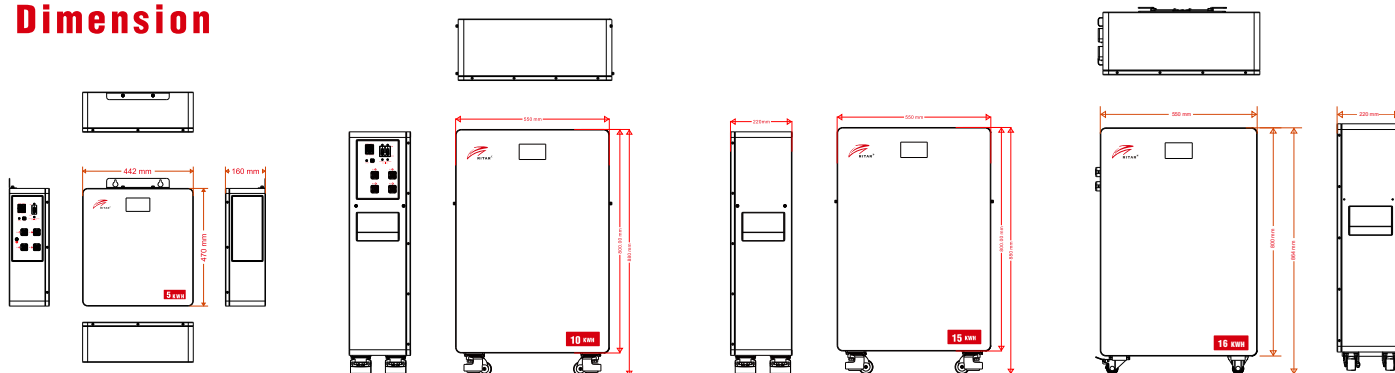
Part Number				
Model	GE-W5KWH-51.2V	GE-W10KWH-51.2V	GE-W15KWH-51.2V	GE-W16KWH-51.2V
Nominal Voltage [V]	51.2	51.2	51.2	51.2
Nominal Capacity [Ah]	100	200	280	314
Total Energy [Wh]	5120	10240	14336	16076
Dimension (W*D*H, mm)	442*470*160	550*880*220	550*880*220	550*880*220
Weight [Kg]	41.0	93.0	123.0	133.0
Max. Charging Current [A]	100	150	140	150
Max. Discharging Current [A]	100	150	140	150
Pulse Discharge Current	110A @10S	180A @10S	180A @10S	180A @10S
Charging Voltage [V]	55.2~57.6	55.2~57.6	55.2~57.6	55.2~57.6
End of Discharge Voltage [V]	44.8	44.8	44.8	44.8
Operation Humidity	0~95% RH (No condensing)	0~95% RH (No condensing)	0~95% RH (No condensing)	0~95% RH (No condensing)
Operating Temperature Range	Charge: 0 ~ +55°C; Discharge: -20 ~ +55°C	Charge: 0 ~ +55°C; Discharge: -20 ~ +55°C	Charge: 0 ~ +55°C; Discharge: -20 ~ +55°C	Charge: 0 ~ +55°C; Discharge: -20 ~ +55°C
Cycle Life ⁽¹⁾	>6000	>6000	>6000	>6000
Designed Calendar Life	10 Years	10 Years	10 Years	10 Years
Communication interface	For inverter : RS485, CAN For battery to battery: LINK-IN, LINK-OUT	For inverter : RS485, CAN For battery to battery: LINK-IN, LINK-OUT	For inverter : RS485, CAN For battery to battery: LINK-IN, LINK-OUT	For inverter : RS485, CAN For battery to battery: LINK-IN, LINK-OUT
Protection	Over voltage , Low voltage Over current, Over Temperature Low Temperature, Short Circuit	Over voltage , Low voltage Over current, Over Temperature Low Temperature, Short Circuit	Over voltage , Low voltage Over current, Over Temperature Low Temperature, Short Circuit	Over voltage , Low voltage Over current, Over Temperature Low Temperature, Short Circuit
Parallel Support ⁽²⁾	Yes, Max. 15 Sets	Yes, Max. 15 Sets	Yes, Max. 15 Sets	Yes, Max. 15 Sets
Series Support	Not support	Not support	Not support	Not support

Note:

(1)25°C,0.5C/1C,80% DOD to 70% of initial capacity.

(2)For parallel connection, refer to user manual.

Dimension



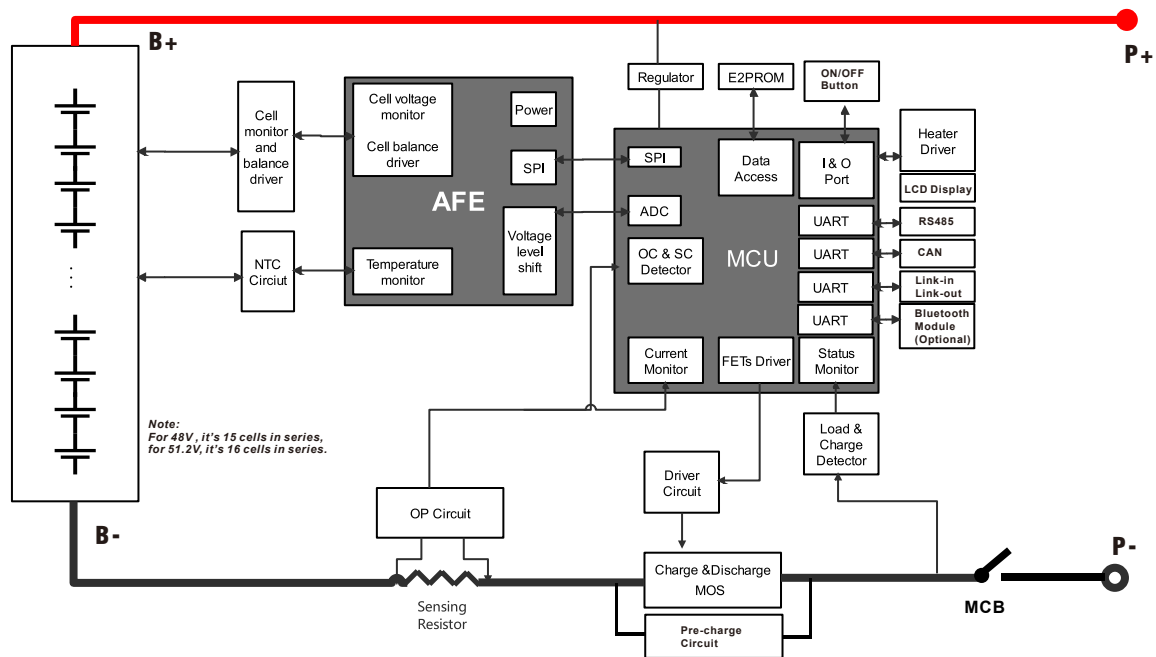
BMS Parameters

S/N	Parameters	Default Setting	Adjustable or not	
1	Cell Over-voltage protection	Cell OV alarm	3500mV	Adjustable
		Cell OV protection	3650mV	Adjustable
		Delay time	1.0S±0.5S	Adjustable
	Cell OV protection release	Release voltage	3380mV	Adjustable
		Discharge release	Discharge current > 1A	
2	Cell Low-voltage protection	Cell LV alarm	2800mV	Adjustable
		Cell LV protection	2500mV	Adjustable
		Delay time	1S	Adjustable
	Cell LV protection release	Release voltage	2900mV	Adjustable
		Charge release	connect to charger	
3	System Over-voltage protection	System OV alarm	3.5V*Cells series	Adjustable
		System OV protection	3.6V*Cells series	Adjustable
		Delay time	1.0S	Adjustable
	System OV protection release	Release voltage	3.38V*Cells series	Adjustable
		Discharge release	Discharge current > 1A	
4	System Low-voltage protection	System LV alarm	2.9V*Cells series	Adjustable
		System LV protection	2.8V*Cells series	Adjustable
		Delay time	1S	Adjustable
	System LV protection release	Release voltage	2.9V*Cells series	Adjustable
		Charge release	connect to charger	
5	Charge Over-current protection	OC alarm	157.5A	Adjustable
		OC protection	165A	Adjustable
		Delay time	1.0S	Adjustable
	Charge OC protection release	Automatic release	1min automatic release	
		Discharge release	discharge current > 1A	

S/N	Parameters	Default Setting	Adjustable or not	
6	OC Alarm-1	165A	Adjustable	
	Discharge Over-current protection	OC protection	180A	Adjustable
		Delay time	1.0S	Adjustable
		Automatic release	It will be automatically released after 1min. If it repeat 10 times, the state will be locked.	
	Discharge Over-current protection release	Discharge release		
		Charge release	charge current > 1A	
7	Short circuit protection	Short circuit protection	Yes	
	Short circuit protection	Release voltage	Charge the battery	
			Remove the load	
8	MOS high temperature protection	MOS HT alarm	90°C	Adjustable
		MOS HT protection	110°C	Adjustable
		MOS protection release	90°C	Adjustable
9	Cell temperature	Charge low temperature alarm	0°C	Adjustable
		Charge low temperature protection	-5°C	Adjustable
		Charge low temperature protection release	0°C	Adjustable
		Charge high temperature alarm	60°C	Adjustable
		Charge high temperature protection	65°C	Adjustable
		Charge high temperature protection release	60°C	Adjustable
		Discharge low temperature alarm	-15°C	Adjustable
		Discharge low temperature protection	-20°C	Adjustable
		Discharge low temperature protection release	-15°C	Adjustable
		Discharge high temperature alarm	65°C	Adjustable
Discharge high temperature protection	70°C	Adjustable		
Discharge high temperature protection release	60°C	Adjustable		

S/N	Parameters	Default Setting	Adjustable or not
10	Ambient low temperature alarm	-20°C	Adjustable
	Ambient low temperature protection	-25°C	Adjustable
	Ambient low temperature protection release	-20°C	Adjustable
	Ambient high temperature alarm	65°C	Adjustable
	Ambient high temperature protection	70°C	Adjustable
	Ambient high temperature protection release	65°C	Adjustable

SYSTEM TOPOLOGY



Compatible with invertre brands

Communication compatible with major inverter

