

RES39220K



OUTDOOR FLOOR 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

- + Outdoor floor mounted design, IP65 class.
- + Flexible and easily installation, bottom with rollers.
- + -20~+55°C widely temperature range.
- + Maintenance free.

SCALABILITY

- + Parallel support for more energy.
- + Communication compatible with the major inverter manufacturers.

BATTERY MANAGEMENT SYSTEM

- + Panasonic AFE + ST MCU, Highly reliability and widely temperature range.
- + Independent protection for charge and discharge.
- + OVP, LVP, OCP, OTP, LTP, Short-circuit protection.
- + RS485, CAN communication port for inverter and Link in& out for battery to battery parallel communication.

RES39220K

SPECIFICATION

Part Number	
Model	RES39220K
Nominal Voltage [V]	51.2
Nominal Capacity [Ah]	392
Total Energy [Wh]	20070
Dimension (W*D*H, mm)	730*220*810
Weight [Kg]	153.0
Max. Charging Current [A]	200
Max. Discharging Current [A]	200
Pulse Discharge Current	220A @ 10s
Charging Voltage [V]	55.2~57.6
End of Discharge Voltage [V]	44.8
Operation Humidity	0~95% RH (No condensing)
Operating Temperature Range	Charge: 0 ~ +55°C; Discharge: -20 ~ +55°C
Cycle Life ⁽¹⁾	>6000
Designed Calendar Life	10 Years
Communication interface	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
Parallel Support ⁽²⁾	Yes, Max. 6 Sets
Series Support	Not support

Note:

(1) 25°C, 0.5C /0.5C , 90%DOD to 80% of initial capacity.

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

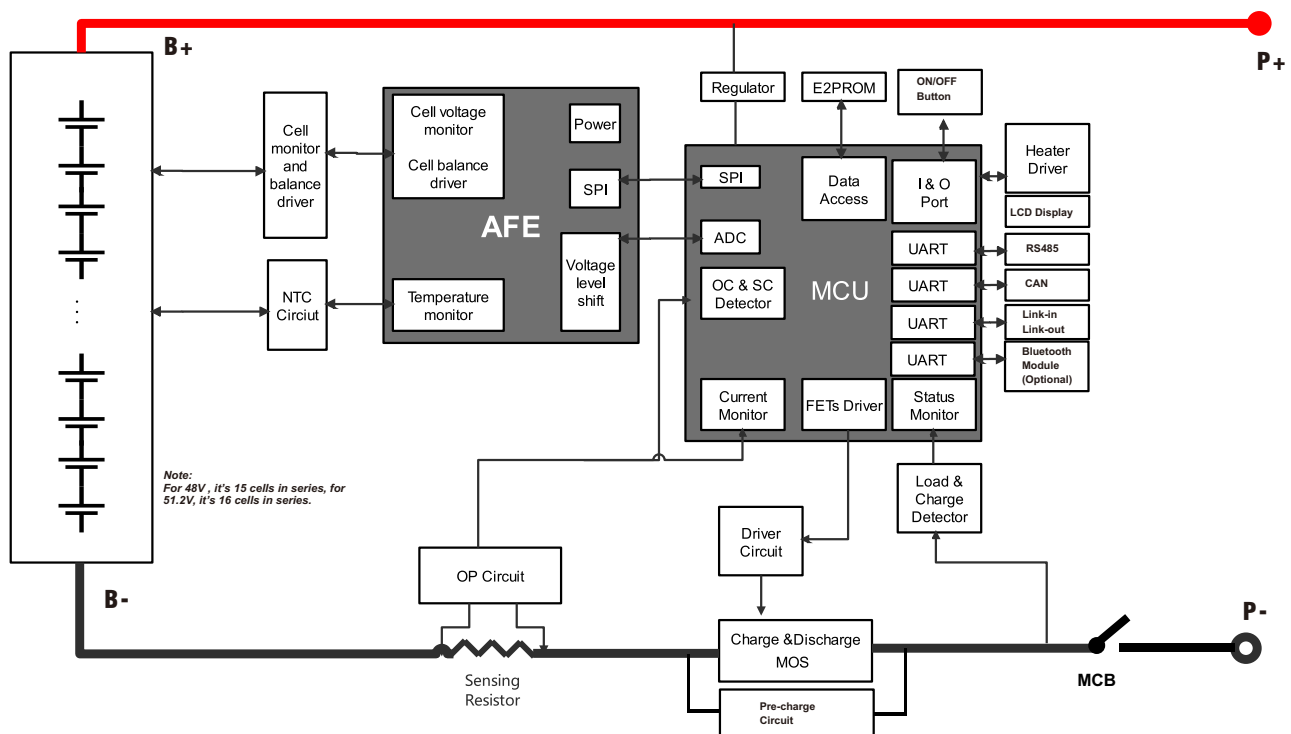
BMS Parameters

S/N	Parameters	Default Setting	Adjustable or not
1	Cell OV alarm	3500mV	Adjustable
	Cell Over-voltage protection		
	Cell OV protection	3650mV	Adjustable
	Delay time	1.0S±0.5S	Adjustable
	Cell OV protection release		
	Release voltage	3320mV	Adjustable
	Discharge release	Discharge current > 1A	
2	Cell LV alarm	2900mV	Adjustable
	Cell Low-voltage protection		
	Cell LV protection	2800mV	Adjustable
	Delay time	1S	Adjustable
	Cell LV protection release		
	Release voltage	3050mV	Adjustable
	Charge release	connect to charger	
3	System OV alarm	3.5V*Cells series	Adjustable
	System Over-voltage protection		
	System OV protection	3.65V*Cells series	Adjustable
	Delay time	1.0S	Adjustable
	Release voltage	3.38V*Cells series	Adjustable
	System OV protection release		
	Discharge release	Discharge current > 1A	
4	System LV alarm	2.9V*Cells series	Adjustable
	System Low-voltage protection		
	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	OC alarm	210A	Adjustable
	Charge Over-current protection		
	OC protection	220A	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	220A	Adjustable
	Discharge Over-current protection	OC protection	Adjustable
	Delay time	5.0S	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
	Release voltage	Charge the battery	
		Remove the load	
8	MOS HT alarm	90°C	Adjustable
	MOS HT protection	110°C	Adjustable
	MOS protection release	85°C	Adjustable
9	Cell temperature	Charge low temperature alarm	5°C
		Charge low temperature protection	0 °C
		Charge low temperature protection release	5°C
		Charge high temperature alarm	60°C
		Charge high temperature protection	65°C
		Charge high temperature protection release	60°C
		Discharge low temperature alarm	-15°C
		Discharge low temperature protection	-20°C
		Discharge low temperature protection release	-15°C
		Discharge high temperature alarm	65°C
		Discharge high temperature protection	70°C
		Discharge high temperature protection release	60°C

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	70°C	Adjustable
	Ambient high temperature protection	80°C	Adjustable
	Ambient high temperature protection release	70°C	Adjustable

SYSTEM TOPOLOGY



Dimension

