



ENERBATT 3G

(Battery Monitoring System)

EXTEND BATTERY LIFE

Ablerex BMS extends battery life thanks to its unique built-in function of voltage equalizer. The wireless communication between the batteries and the receiver truly simplifies the installation and the maintenance of the blocks. Thanks to the RS485 communication between the RF receiver and the touch screen, it's adapted for installation in very wide plants.

PERFECT FOR:

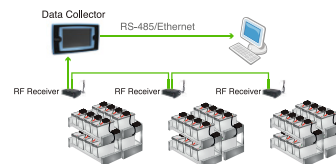
- Datacenter
- Large batteries installations
- Critical buildings
- 24/7 Monitoring

FEATURES

- Voltage Equalizer: equalizes the voltage of each battery of the string to improve battery life
- RF 2.4GHz, Wireless Communication Technology
- Easy Installation: save installation costs
- RS485 communications between RF receiver and touch screen to cover widest plant size
- Graphic LCD touch screen
- Real Time Monitoring: block voltage, block impedance, temperature, string voltage & current
- 1Hz sampling rate
- Available for different battery voltage and capacity
- Protecting cut off voltage: preserves batteries from deep discharge
- Built in SD storage memory card for battery history database up to 16GB
- Color bar/curve diagrams
- Programmable alarm level
- Alarm via e-mail & dry contact
- Ethernet/RS-485 for Remote Monitoring
- Manage up to 750 batteries

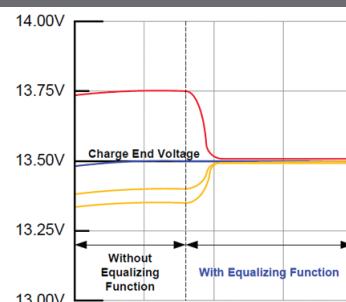
OPTIONS

- Temperature sensor for each battery
- Additional antenna for each battery to extend wireless range
- SMK version up to 120V for higher precision
- Dedicated software for remote monitoring and data storage



BATTERY VOLTAGE EQUALIZER

Equalizes battery charge end voltage at battery level to prevent overcharging and guarantee best battery use and life. With battery equalizer function activated, each battery block voltage remains close to the ideal value. Each battery works in the best condition possible so life span is maximized.



SPECIFICATIONS

MODEL		SPECIFICATIONS			
BMS-DC-LCDII (Data Collector)	Display	LCD 7" Graphic Touch Screen			
	Input Power Supply	12Vdc			
	Power Consumption	≤ 9W			
	Communication Ports	Ethernet x 1, RS-485 Modbus RTU x2 - 3x output and 1x input dry contact			
	Monitoring RF Receiver	Up to 63 RF receivers			
	Wireless devices	Maximum 750			
	Storage Media	Up to 16 Gigabyte SD/ flash memory card			
	Dimensions (WxHxD) mm	260 x 150 x 57			
	Weight (Kg)	0.85			
BMS-RFR (RF Receiver)	Input power supply	12Vdc			
	Power consumption	≤ 3W			
	Receiving interface	RF 2.4 GHz for wireless*			
	Wireless devices	Maximum 256			
	Dimensions (WxHxD) mm	129 x 70 x 35.5			
	Weight (Kg)	0.4			
BMS-BMK (Battery Measure Kit)	Block voltage	2V	6V	12V	
	Voltage measurement range	1.48~4.00V	4.2~8.0V	8.5~16.0V	
	Accuracy	±5 mV	±5 mV	±10 mV	
	Battery impedance resolution	2μΩ	10μΩ	>65 Ah 15 μΩ	<65 Ah 25 μΩ
	Temperature measurement **	0~100°C ±1°C			
	Power consumption	≤ 0.5W			
	Input impedance	≥ 1MΩ			
	Dimensions (WxHxD) mm	100 x 27 x 70			
	Weight (Kg)	0.1			
BMS (Battery Monitoring System) - SMK (String Measure Kit)	Voltage measurement range	0-120V		120-750V	
	Accuracy	±0.2% of rated voltage			
	Temperature measurement **	0~100°C ±1°C			
	Current Measurement ***	0~3000 A			
	Input power supply	12 VDC			
	Power consumption	≤1.5W			
	Input impedance	≥1MΩ			
	Dimensions (WxHxD) mm	100 x 27 x 70			
	Weight (Kg)	0.09			

Specifications subject to change without notice

* Maximum transmitting distance is rated at 50m in a non-concealed room or cabinet. Recommended distance is less than 20m for optimal performance

** Optional temperature sensor (TES) is required for temperature measurement

*** Optional Hall Current transformer (HCT) s required for battery current measurement