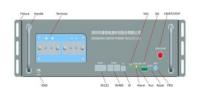


WING Battery delivers safe Lithium Ferro Phosphate battery solutions for Telecom application.

The LiFe 100-48 back-up lithium ferro phosphate battery system is developed for backup of Telecom equipment. Under normal condition, grid AC power supply to rectifier module and the Telecom loads and charge battery pack, when the AC power fail, rectifier module stop power supply, the battery serves for Telecom equipment, to ensure the Telecom equipment runs normally. When the AC power is switched on again, power rectifier module for Telecom equipment recover to while charge the battery pack.

Innovative Features

- RS485 communication output for monitoring
- Built-in BMS with Charging current limitation
- Built-in automatic protection for over-charge, over-discharge and over-temperature conditions
- State of charge and state of health indication
- Built-in battery control for efficient operation
- Internal cell balancing
- Compatible with standard Telecom rectifiers
- Maintenance free
- More energy per volume
- Weight: easy installation, one person





Specifications

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Voltage	48V
Nominal capacity (25°C, 0.2C)	100Ah
Normal energy (25°C, 0.2C)	4800 Wh
Standard discharge 25°C	
Max. constant current	100A
Cut-off voltage	42V
Standard charge 25°C	
Charge voltage	52V~54V
Float voltage	51.75V~52.5V
Maximum constant current	100A
Recommended charging current and life	50A (0.5C) for 2 hours
Cycle life (0.2C, 25°C)	80% DOD, 6000 cycles
Recommended operating temperature	
Charging	0°C~5°C
Discharging	-20°C~50°C
Storage temperature	-40°C~55°C
Round trip efficiency (%)	> 98%
Calendar life	≥ 12 years

Dimensions and weight L x W x H in mm (± 2mm) 42x480x140 Weight 41.5 (± 0.3kg) Discharge Perform ance at 25°C Temperature effect s on capacity at 0.2C (oltage(V) 38 60 -10 10 20 30 Temperature (℃) 50 60 Capacity(%) 40 --Charge and Discharge at 25°C, 0.2C Cycle life with DOD at 25°C, 0.2C 10 12000 1000 2000 3000 4000 5000 Number of cycle (cycles) 9000 60 Capacity(%)

Manufactured in ISO9001, ISO14001, OHSAS 18001 certified facility





LiFe 100-48 Lithium Gerro Phosphate 48V - 100Ah

BMS Parameters.

NO.	Туре		Function	Setting value	Remarks	
140.				LiFe 100-48		
1	Voltage	Charge	Cell Voltage Protection	3.80V Protection	Recover at 3.6V	
2			Total Voltage Protection	56.0V Warning/ 57.0V Protection	Recover at 54.0V	
3		Voltage		Cell Voltage Protection	2.5V Protection	Recover at 3.1V
4		Discharge	Total Voltage Protection	43.2V Warning / 42V Protection	Recover at 46.5V	
5	Current	charge	Normal	≤100A		
6			Normal	≤100A		
7		Current Discharge	Over Current Protection 1	>100A and <120A	Delay 30s ,recovery in every 1min	
			Over Current Protection 2	>120A and $<$ 200A	Delay 3s ,recovery in every 1min	
8			Short Circuit Protection	≥200A	Delay 1mS	
9	Temp	Cell Temp 1	Low temp protection	Charging $<$ 0 $^\circ { m C}$ Discharging $<$ - 20 $^\circ { m C}$	Delay 1~2S	
10		Cell Temp 2	High temp protection	Charging ≥70℃ Discharging ≥75℃	Delay 1~2S	
11		PCB	Range	≥95℃	Recovery at 75 $^\circ\mathrm{C}$	
12	Cell Balance	Balance	Make all cells be balance during charging process. Current: 150mA	$V_{Max}.{\geqslant}3.40V$ and $V_{Max.}$ - $V_{Min}{\geqslant}40mV,$ Start balance	All cell voltages \leqslant 3.65V and V_{Max.} - V_{Min} \leqslant 40mV, Stop balance	

Battery Status

- Stop/Transport Mode. In working mode, turn off the air switch, battery will go to Stop MODE with low self-discharge. In STOP mode, charging MOS and discharging MOS are open, battery can't charge, discharge or communicate.
- 2) Working Mode. In STOP mode, connect the battery to SMPS, turn on the air switch, battery will go to working mode. In working mode, BMS will monitor battery voltage, current and tem and communication is available, charging MOS and discharging MOS are close. Battery will operate as the settings.
- 3) Sleep Mode. After turning on the battery, if the battery voltage is below low voltage protection, BMS will go to sleep mode in 1 minute. In sleep mode, charging MOS and discharging MOS are closed, BMS will check the current every 1 minute, if there's charging current connecting, battery will turn to working mode.
- 4) Error Mode. In working mode, if there is: ① Battery cells, Δ U>2.5V, or ② any cell voltage >4.4V or <0.5V, or ③ battery temp is <30°C or +100°C, BMS will go to error mode, ALM will bright and other LED will shut down, and to STOP mode, charging MOS and discharging MOS are open. Need to troubleshoot.

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