Shenzhen ABT Power CO. , LTD. Email:sales@abt-power.com Http://www.abt-power.com				
SPECIFICATION		PREPARE	CHECK	APPROVE
MODEL:	USED IN:			
ISSUE DATE :	4/22/2013 8:55:00 PM			
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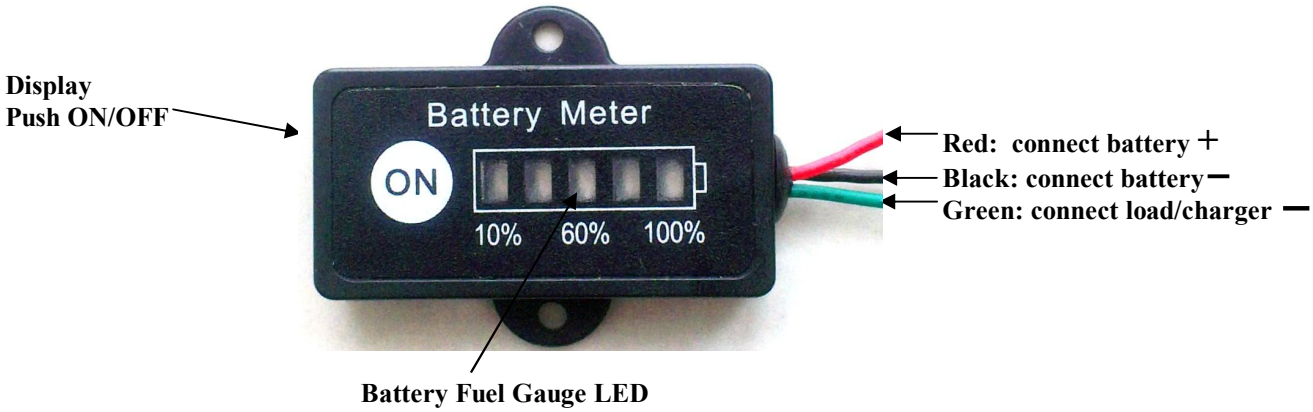
BG1F-4 12.8V （4S） LiFePo4 Battery Fuel Gauge

No.	Item	Unit	Specification	Remark
Specification				
01	Rating Input Voltage	V	DC 8~13V	
02	Suitable battery type		12.8V 4s LiFePo4	
03	Max. Charge/Discharge Current permitted.	A	No Limitation.	This value depends on the external Current sensor wired with battery negative, see attached drawing.
04	Current sensor resistor value recommended. (Series in negative path)	Ω	0.005 for 20A~50A working current. 0.01 for 5A~20A working current. 0.05 for 1A~5A working current.	
05	Working Consumed Power	mA	5	
06	OFF Status leakage current	mA	1	Push “On” button.
07	Fuel gauge display tolerance	%	+- 20%	

Top View and Illustration



Installation

1. Make sure the battery you wired is 12.8V 4S LiFePo4.
2. Connect the RED WIRE with your battery positive pole,
   Connect the BLACK WIRE with your battery negative pole.
3. Series a current sensor resistor between the battery negative pole and the load/charger (also we called output negative).
   The recommended value of this current sensor is 0.005~0.05 ohm, depended on your load’s working current.
   If you have a BMS in your battery-pack, you can use the series current sensor resistor on this BMS, then you do not need to do above job.
4. Connect the GREEN WIRE with the load/charger output negative terminal, after above “current sensor resistor”.
   End of installation.

Caution:

1. The Black and Green wire should be connected properly, if not the charging and discharging status and fuel gauge will be reversed and in correct.
2. Please read this manual and understand attached schematic drawing before connect any wire!

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Installation drawing: