

SPECIFICATION		PREPARE	CHECK	APPROVE
MODEL:	USED IN:			
ISSUE DATE :	21/11/2012 2.32 PM			
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HBG2-F48-28 48V (16S) LiFePo4 Battery Fuel Gauge

No.	Item	Unit	Specification	Remark
<i>Specification</i>				
01	Rating Input Voltage	V	DC40~65V	
02	Suitable battery type		48V 16s LiFePo4	
03	Max. Charge/Discharge Current permitted. & typical series impedance.	A	Max. Discharge current: 28A Max. Charge current: 18A Series Impedance: 5mΩ	
04	Rating Consumed current	mA	30	(Including 25mA LCD Back light)
05	OFF Status leakage current	mA	0	OFF switch
06	Voltage display tolerance	%	+2.5%	
07	Fuel gauge display tolerance	%	+20%	
08	Current display tolerance	%	+5% * I	+0.3A when I≤5.0A

Top View and Illustration

Mounting hole (M3)

Display ON/OFF connector
"shorted" ON;
"open" OFF

Output Negative Port (O-)
Caution: These two terminals are all for Negative, don't connect any of them to Positive.

Battery voltage

Battery current

Battery Input Port
(B+) for positive
(B-) for negative
(B-) for negative

Battery Fuel Gauge (Graphical view)

Fuel Gauge (Percentage view)

Working Status: DS=Discharging CH=Charging

Installation

1. Make sure the battery you wired is 48V LiFePo4 battery.
2. First, connect the TWO "B-" terminals with your battery negative pole, because the maximum current is 28A, so you should use #18AWG wires or #16AWG. For the wire length, the shorter the better. Connect "B+" terminal with battery positive pole. This cable only carry 40mA current, so #22AWG wire is enough.
3. Second, connect your Load Device:
Connect Battery Positive pole with your Load Device Positive directly, #18AGW or better.
Connect this meter's (O-) terminals with your Load Device Negative, #18AWG or better.

Caution:

1. The two terminals "O-" on the left side are all for negative, don't connect any of them with Positive pole, this will cause firing or smoking !
2. Please read this manual and understand attached schematic drawing before connect any wire!

Schematic drawing:

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