

GUDY ELECTRONICS LTD.

Tel:86-755-27810525 Fax:86-755-27810505 Email:info@gudycharger.com Http://www.gudycharger.com

SPECIFICATION		PREPARE	CHECK	APPROVE
MODEL:	USED IN:			
ISSUE DATE :	4/11/2014 10:34:00 AM			
COMMON/UNITE	DOC. NO:		REV.: 2.1	PAGE: 1 OF 1

GBM1-XXX Battery Gauge Indicator Specification

NO	ITEM	UNIT	SPECIFICATION	REMARK
INPUT				
01	Rating Input Voltage	V	DC3.6~24V	GBM1-LX X (X=1~13) for 1~13S Li-ion/polymer battery-pack GBM1-FXX (X=2~8) for 2~8S iFePo4 GBM1-NXX (XX=3~40) for 3.6V~48V NIMH battery GBM1-AXX (XX=6~48) for 6V~48V lead-acid battery
02	Suitable battery type	V	Li-Ion, Li-Polymer(1~13S, 3.7V~48V) Li-FePO4, (1-15S, 3.2-48V) NiMh, NiCd (3S~40S, 3.6V~48V) Lead-Acid (6V, 12V, 24V, 36V, 48V)	
03	Rating Input current	mA	10	
04	Power-off leakage current	mA	<0.5	Auto Power-off after several minutes

Fuel Gauge

05	LED1 flashing light LED2~5 off		10% full capacity	<p>Note1: This gauge is designed for discharge and idle condition usage. It is not recommended for charging condition. If you want to know the charged power, please remove the charger and wait 3~5 minutes.</p> <p>Note2 : For GBT1-Lx and Axx, the gauge tolerance is +-10% about, For GBT1-Fx, the gauge tolerance is about +-10%.</p>
06	LED1 solid light LED2~5 off		20% full capacity	
07	LED1 solid, LED2 flashing LED3~5 off		30% full capacity	
08	LED1~2 solid light LED3~5 off		40% full capacity	
09	LED1~2 solid, LED3 flashing LED4~5 off		50% full capacity	
10	LED1~3 solid light LED4~5 off		60% full capacity	
11	LED1~3 solid, LED4 flashing LED5 off		70% full capacity	
12	LED1~4 solid light LED5 off		80% full capacity	
13	LED1~4 solid, LED5 flashing		90% full capacity	
14	LED1~5 solid		100% full capacity	

Environment

15	Operate temperature	℃	-10 ~ +50	Full load & natural convection.
16	Operate humidity	%RH	< +90	Relative humidity, non-condensing.
17	Storage temperature	℃	-40 ~ +70	
18	Storage humidity	%RH	0 ~ +95	Relative humidity, non-condensing.
19	Cooling	-	Natural convection	
20	Temperature factor	%	-	
21	Vibration resistance	-	5MM/50HZ/600S	Non-operating condition.
22	Impact resistance	-	1 meter drop test >= 3 times	Non-operating condition.

Mechanical

23	Weight	g	~10	
24	Size	mm	42X22X9	
25	Cable/Connectors	-	0.5m, AWG22, 2 wires	Red V+; BlackV-
26	ESD	kV	2.0	

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GBM1-XX Top view



To battery “-”
“ Negative
(Black wire)

To battery “+”
Positive
(Red wire)

Push this button for “ON” working.
The LEDs display will auto power-off after minutes!