CAUTION

1. SAVE THIS INSTRUCTIONS- This manual contains important safety and operating instructions for the G100-XXL battery charger.

Please read the caution of batteries or devices you want to charge firstly!

- 2. When charging, batteries can emit explosive gases, therefore it is essential to prevent flames and sparks. The charger is designed for charging specified Li-Ion/LiFePo4 batteries. Do not use for any other purpose.
- 3. Always provide good ventilation when charging.
- 4. Use of an attachment not recommended or sold by Green-Digital Power-tech may result in a risk of fire, electric shock or serious injury to persons.
- 5. To reduce risk of damage to electric plug and cord, pull by the plug rather than by the cord when disconnecting charger.
- 6. <u>An extension cord should not be used unless absolutely necessary</u>. Use of an improper extension cord could result in a risk of fire and electric shock. If extension cord must be used, make sure that: a) Pins on plug of extension cord are the same number, size and shape as those of plug on charger; b) Extension cord is properly wired and in good electrical condition; and c) Wire size is large enough for ac ampere rating as specified in "technical data".
- 7. Do not operate charger with a damaged cord or plug-return the charger to the place where purchased.
- 8. Never operate the charger if it has received a sharp blow, been dropped or otherwise damaged in any way; take is to a qualified serviceman.
- 9. Do not disassemble the charger; take it to a qualified serviceman when service or repair is required. Incorrect reassembly may result in a risk of electrical shock or fire.
- 10. To reduce risk of electric shock, unplug charger from AC outlet before attempting any maintenance or cleaning. Turning off controls will not reduce the risk.

G100-XXL 12.8V~38.4V (4s~12s) Li-Ion/Polymer/LiFePo4 Battery Charger

User's Manual



May, 2011 Version 1st

Brief Introduction

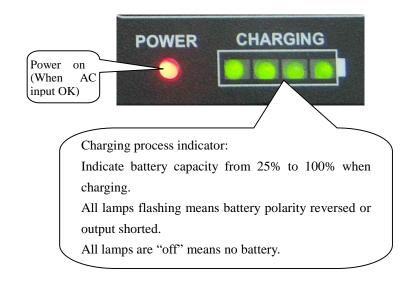
G100-XXL is a main member of digital-chargers from Shenzhen ABT Electronics CO.,LTD . It represents today's new technology for 12.8V(4s) ~ 34.8V(12s) Li-Ion/Polymer/FePo4 battery pack charging. G100-XXL programmed 3 auto stages (Ip-Im-Um) charging process, It is designed for 3~25Ah Li-Ion/Polymer/LiFePo4 battery pack. Stage "Ip" is a pre-charge function for deep discharged battery pack, this is helpful for battery's cycle life. When the battery recovered by pre-charge small current, stage "Im" will give bulk current charging. Then, "Um" stage is followed, the output voltage is limited on 14.4V(for 4S LiFePo4) or 16.8V(for 4S Li-ion/polymer), until the charge current declined to 0.4A. At this stage, the battery is charged completely and the charger will cut off output automatic.

Further, G100-XXL can display the charging process, indicate the battery capacity from 25% to 100% timely. This is helpful for user.

For more safety, G100-XXL will inter protection mode when the battery polarity reversed our the output connectors shorted.

Speemeenten for G	Specification for G100-AAL						
Input Voltage	100-240VAC, 50-60Hz						
Input Current	1.6A						
Back current drain 1)	<1mA						
Charge voltage limit	G100-12LF	G100-24L	G100-36L	G100-36LF			
	14.4V+-1%	29.4V+-1%	42V+-1%	43.2V+-1%			
Bulk charge current	4.5A+-5%	2.8A+-5%	1.8A+-5%				
Operate Temperature	-20°C~50°C						
Cooling	Natural convection. Do not cover the charger.						
Charge principle	Auto 3 stages: Ip-Im-Um						
	Cut-off when charge finished.						
Battery type	From 12.8V(4s) to 38.4V(12s), Li-ion/Polymer/LiFePo4						
Battery capacity	3-25Ah						
Size	170X70X51mm						
Enclosure	IP54 (Dust protected, Water splashing resistance)						
Weight	400g						

Display Panel



How to use:

- 1. Connect the AC cord to the socket, The "power" lamp will light on solid.
- Connect positive charger clip (red) to positive battery terminal, the black clip to negative. (You can use other dc plugs to connect battery), the "25%~100%" lamps will light on flowing. If the battery polarity reversed or output shorted, "Warning" lamp will flashing, please check the setup.
- Depend on the charged capacity, 25%~100% lamps will lights up solid sequence, until the battery is fully charged. Then you can power off the charger and disconnect the battery or you can charge a new battery if you need.

The table shows the	duration of 80%	state charged for	an empty battery.

Battery cap.	G100-12LF	G100-24L	G100-36L
3.2Ah	Not recommend	1.5 hours	2 hours
7.0Ah	2 hours	3 hours	4 hours
12Ah	3 hours	5 hours	7 hours
25Ah	6 hours	10 hours	13 hours