

LBC-04100D/LBC-08070D LiFePO4 Charger Specifications & User Manual

Features:

- 3 Stages Charging: 1st-25% of rating current; 2nd-50% of rating current; 3rd-100% of rating current (equalizer).
- Automatic Re-charging Battery: If the battery voltage $< 3.1V/cell$ after full charged, the charger will automatically re-be charging the battery.
- Short-circuit Protection: Charger O/P cut-off automatically when short circuit.
- Overload Protection: Charger O/P current-limited automatically when overload.
- Unique Digital Meter Display: Indicating charging voltage, current, battery capacity (percent and AH) and charger status (timer, pre-charge,)
- 3 LED Display: Red(power), green (full charged) & orange (equalizer charge)

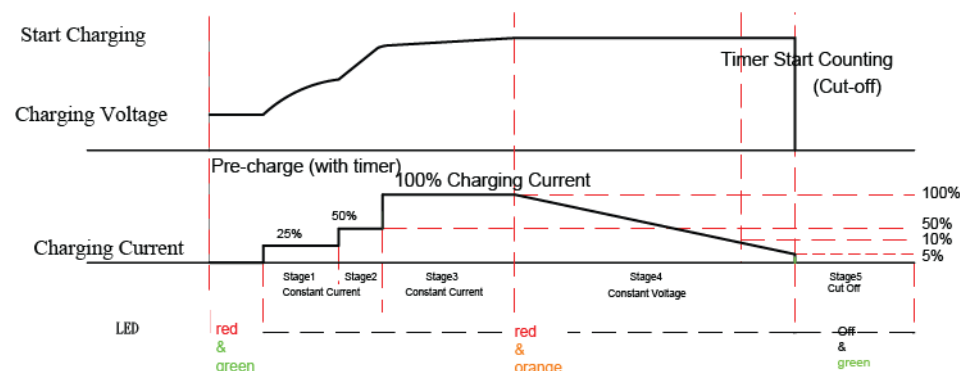
Specifications:

MODEL		BCS-AL1210	BCS-AL2407
Input	Voltage	AC100V-120V or AC200V-240V	
	Frequency	47-63HZ	
Output	Voltage	DC14.6V +/-0.2V	DC29.2V +/-0.2V
	Rating Current	10A +/-5%	7A +/-5%
	Pre-charge1($< 2.5V/cell$) Timer1	2.5A +/-5%	1.8A +/-5%
	Pre-charge2($< 2.9V/cell$) Timer2	5A +/-5%	3.5A +/-5%
	$< 10\%$ of Rating Current Timer3	1A +/-5%	0.7A +/-5%
	$< 5\%$ of Rating Current Cut-off	0.5A +/-5%	0.4A +/-5%
	Re-charging ($< 3.1V/cell$)	12.4V +/-0.2V	24.8V +/-0.2V
Protection	Battery Reverse	Yes, Automatic Shutdown	
	Short-circuit	Yes, Automatic Shutdown	
	Overload	Yes, Current Limited	
	Cooling Fan	Speed Controlled by Charging Stage	
Mechanical	Dimensions (mm)	167 x103 x50	
	Weight (KGS)	0.9	

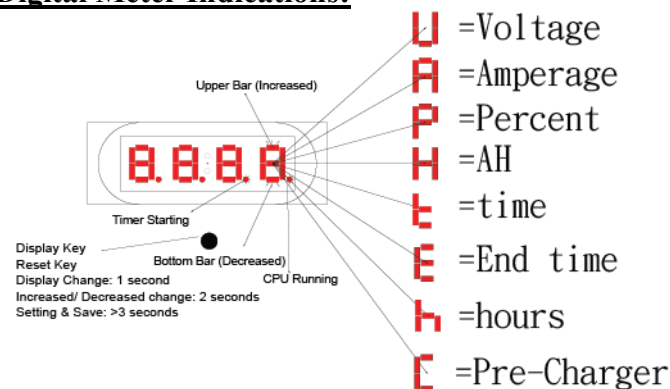
Operations:

- Connect the charger system to a wall receptacle strongly. The battery charger must only be plugged into an earthed socket-outlet.
- Connect the alligator clips to battery terminals (red clip $\rightarrow$ positive terminal; black clip $\rightarrow$ negative terminal)
- Turn on the power switch which is located on the rear panel then the red LED lits and bi-colour LED will confirm the charger's stage. And the LCD (or digital meter) will confirm the charger's stage & battery level (or O/P voltage)

Charging Curve & LED Indications:



Digital Meter Indications:



Notices:

- LBC Series was designed for charging Lithium Batteries only. The battery maybe damaged if orange LED cannot be off lighting after long time charge
- Always place the charger in well ventilated and dry environments
- The charger was designed by aluminum housing as itself heat sink, avoiding touching the case for safety purpose because the temperature is about $50^{\circ}C$ on the case when charging.

