


**EXTRACELL**

DATE: 2012-03-16

## SPECIFICATION

MODEL		LC5-12-12A	NAME	CLASS 2 BATTERY CHARGER	PHOTO 
PART NO.		LC-2152	SPEC.	12V 12A	
Switch Power Supply; For 12V lead-acid battery VRLA AGM and GEL only.					
I	INPUT PROPERTY				
	1	AC input voltage range		90Vac~132Vac/185Vac~264Vac	
	2	AC input voltage rating		100Vac~120Vac/200Vac~240Vac	
	3	AC input frequency		60Hz/50Hz	
	4	AC input current		3.0 @ 115Vac/1.8A@ 230Vac	Max. (RMS)
	5	AC input power		230W	Max.
	6	AC input static state current		0.15A	Max. (RMS)
	OUTPUT PROPERTY				
	1	Output voltage range		10.0-15.0Vdc	
	2	Output Current		12A @ 12Vdc	± 10%
	3	Output power		180W	Max.
	4	Bulk charge current rating		12A	Typical
	5	Bulk charge voltage rating		14.7Vdc	± 0.3Vdc
	6	Float charge voltage rating		13.7Vdc	13.5V-13.95Vdc
	7	Light switching current		2.4A	± 0.6A
II	GENERAL CHARACTERISTICS				
	1	Efficiency		75% (Typical)	At Max. Load
	2	Over load protection		<18A	
	3	Short circuit protection		Enable	
	4	Reversed polarity connectors protection		Enable	
	5	Operating temperature		0℃~40℃	
	6	Storage temperature		-30℃~85℃	
	7	Operating relative humidity		8%~90%	
	8	Storage relative humidity		5%~95%	
III	INDICATOR STATUS				
	1	Red LED on		Power on	
	2	Orange LED on		Bulking charge	
	3	Green LED on		Floating charge or empty load	
	4				
	5				

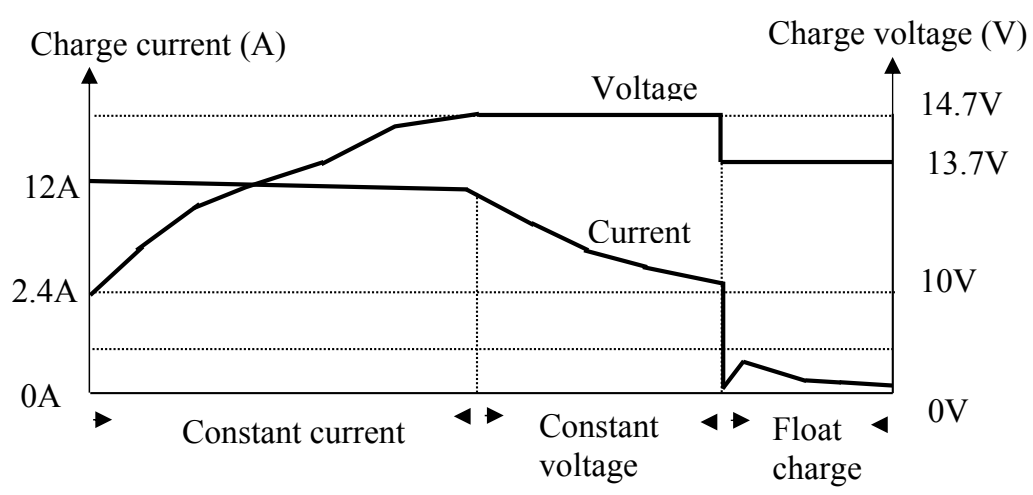
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MODEL	LC5-12-12A	NAME	CLASS 2 BATTERY CHARGER	SPEC.	12V 12A
IV	<b>SAFETY</b>				
	1	Withstand Voltage (Hi-Pot)	3000Vac 10mA (60 Sec.)	I/p to O/p	
	2	Insulation resistance	More than 100MΩ at 500Vdc	25°C & 70%RH	
	3	Temperature Rise	<45°C	Enclosure	
	4	Safety Standard	Designed to meet UL1012/CSA		
	5	EMI/RFI Standard	Designed to meet CE Class B	EN55022-B	
VI	<b>RELIABILITY</b>				
	1	Spot test	Burn in 24 hours at 40°C	Full load	
	2	Whole test	Burn in 2 hour at 40°C	Full load	
	3				
VII	<b>MECHANICAL CHARACTERISTICS</b>				
	1	Net Weight	1.5Kg		
	2	Dimension	208mm×130mm×82mm	L×W×H	
	3	Enclosure	Metal case		
VIII	<b>CHARGER CHARACTERISTICS</b>				
	 <p>The graph illustrates the charging profile of the LC5-12-12A charger. It shows two curves: Charge current (A) on the left y-axis and Charge voltage (V) on the right y-axis. The x-axis represents time, divided into three operational modes: Constant current, Constant voltage, and Float charge. During the Constant current phase, the current is maintained at 12A while the voltage rises. In the Constant voltage phase, the voltage is held at 14.7V as the current decreases to 2.4A. Finally, in the Float charge phase, the current remains at 2.4A and the voltage is reduced to 13.7V.</p>				