


SPECIFICATION				
MODEL	LC-2213	NAME	CLASS 2 BATTERY CHARGER	PHOTO 
PART NO.		SPEC.	12V 4A	
Switch Power Supply, For 12V lead-acid battery only.				
I	INPUT PROPERTY			
	1	AC input voltage range	85Vac~264Vac	Universal
	2	AC input voltage rating	100Vac~240Vac	
	3	AC input frequency	47Hz~63Hz	
	4	AC input current	1.1A @ 115Vac/0.65A @ 230Vac	Max. (RMS)
	5	AC input power	72W	Max.
	6	AC input static state current	50mA	Max. (RMS)
	OUTPUT PROPERTY			
	1	DC Output voltage range	10~15.0Vdc	
	2	DC Output Current	4A @ 12Vdc	± 10%
	3	DC Output power	58W	Max.
	4	Bulk charge current rating	4A	Typical
	5	Bulk charge voltage rating	14.7Vdc	± 0.3Vdc
	6	Float charge voltage rating	13.65Vdc	± 0.15Vdc
7	Light switching current	800mA	±200mA	
II	GENERAL CHARACTERISTICS			
	1	Efficiency	80% (Typical)	At Max. Load
	2	Over load protection	<6A	
	3	Short circuit protection	Enable	
	4	Reversed polarity connectors protection	Enable	
	5	Operating temperature	0°C~40°C	
	6	Storage temperature	-30°C~85°C	
	7	Operating relative humidity	8%~90%	
	8	Storage relative humidity	5%~95%	
III	INDICATOR STATUS			
	1	Green LED on	Floating charge or empty load	
	2	Red LED on	Bulk charge	
	3			
	4			
	5			

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IV	SAFETY				
	1	Withstand Voltage (Hi-Pot)	3000Vac \leq 10mA (60s)		I/p to O/p
	2	Insulation resistance	>100M Ω @500Vdc		25°C & 70%RH
	3	Temperature Rise	<75°C		Enclosure
	4	Safety Standard	UL1310 (E248494)		Approved
	5	EMI/RFI Standard	Designed to meet EN55022-B		
VI	RELIABILITY				
	1	Spot test	Burn in 24 hours at 40°C		
	2	Whole test	Burn in 1 hour at 40°C		
VII	MECHANICAL CHARACTERISTICS				
	1	Net Weight	430g		
	2	Dimension	138mm×72mm×42mm		L×W×H
	3	Enclosure	Plastic case		
VIII	CHARGER CHARACTERISTICS				
	<p>The graph illustrates the charging profile of the 12V 4A 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 stages: Constant current, Constant voltage, and Float charge. In the Constant current stage, the current rises from 800mA to 4A while the voltage increases. In the Constant voltage stage, the current remains at 4A while the voltage reaches 14.7V. In the Float charge stage, the current drops to near 0A and the voltage is maintained at 13.65V.</p>				