

SPECIFICATION					
MODEL	LC-2301	NAME	Class 2 battery charger	PHOTO	
PART NO.		SPEC.	6V 2A		
Switch Power Supply, For 6V lead-acid battery only.					
I	INPUT PROPERTY				
	1	AC input voltage range	90Vac~264Vac	Universal	
	2	AC input voltage rating	100Vac~240Vac		
	3	AC input frequency	47Hz~63Hz		
	4	AC input current	0.31A@115Vac/0.21A@230Vac	Max. (RMS)	
	5	AC input power	23W	Max.	
	6	AC input static state current	30mA	Max.	
	OUTPUT PROPERTY				
	1	Output voltage range	5~7.5Vdc		
	2	Output Current	2A@6Vdc	±10%	
	3	Output power	14.2W	Max.	
	4	Bulk charge current rating	2A	Typical	
	5	Bulk charge voltage rating	7.35Vdc	±0.15Vdc	
	6	Float charge voltage rating	6.8Vdc	±0.1Vdc	
7	Light switching current	400mA	±100mA		
II	GENERAL CHARACTERISTICS				
	1	Efficiency	66%	Typical	
	2	Over load protection	<3A		
	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	Empty load or float charge		
	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		Case
	4	Safety Standard	UL1310 (E248494)		
	5	EMI/RFI Standard	Designed to meet EN55022-B		
VI	RELIABILITY				
	1	Spot test	Burn in 24h at 40°C		Full load
	2	Whole test	Burn in 2h at 40°C		Full load
VII	MECHANICAL CHARACTERISTICS				
	1	Net Weight	205g		
	2	Dimension	82mm*55.5mm*47mm		L×W×H
VIII	CHARGER CHARACTERISTICS				
	<p>The graph plots Charge current (A) on the left y-axis (0A to 2A) and Charge voltage (V) on the right y-axis (0V to 7.35V). The x-axis represents time, divided into three phases: Constant current, Constant voltage, and Float charge. In the Constant current phase, the current rises from 400mA to 2A while the voltage rises from 5V to 7.35V. In the Constant voltage phase, the current remains at 2A while the voltage stays at 7.35V. In the Float charge phase, the current drops to near 0A and the voltage drops to 6.8V.</p>				
	<p>Charge current (A) and Charge voltage (V) are shown. The graph is divided into three stages: Constant current, Constant voltage, and Float charge. The current starts at 400mA and rises to 2A. The voltage starts at 5V and rises to 7.35V. In the float charge stage, the current drops to near 0A and the voltage drops to 6.8V.</p>				