

深圳市迈科盛电源技术有限公司
Shenzhen Marxon Power Supply Co. Ltd.

FILE NO.:

VERSION NO.:

DATE:

SPECIFICATION				
MODEL	LC-2196	NAME	Class 2 battery charger	PHOTO 
PART NO.		SPEC.	6V 0.4A	
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	0.09A@115Vac/0.06A@230Vac	Max. (RMS)
	5	AC input power	6W	Max.
	6	AC input static state current	20mA	Max.
	OUTPUT PROPERTY			
	1	Output voltage range	5.0~7.5Vdc	
	2	Output Current	0.4A@6Vdc	±10%
	3	Output power	3W	Max.
	4	Bulk charge current rating	0.4A	Typical
	5	Bulk charge voltage rating	7.35Vdc	±0.15Vdc
	6	Float charge voltage rating	6.8Vdc	±0.1Vdc
7	Light switching current	80mA	±20mA	
II	GENERAL CHARACTERISTICS			
	1	Efficiency	58%	Typical
	2	Over load protection	<0.6A	
	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	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)	3750Vac ≤10mA (60s)	I/P to O/P	
	2	Insulation Resistance	>100MΩ @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 1h at 40°C	Full load	
VII	MECHANICAL CHARACTERISTICS				
	1	Net Weight	162g		
	2	Dimension	67.5mm*52.5mm*40.5mm	L×W×H	
VIII	CHARGER CHARACTERISTICS				
	<p>The graph plots Charge current (A) on the left y-axis (0A, 80mA, 0.4A) and Charge voltage (V) on the right y-axis (0V, 5V, 6.8V, 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 80mA to 0.4A while the voltage increases. In the Constant voltage phase, the current remains at 0.4A while the voltage reaches 7.35V. In the Float charge phase, the current drops to near 0A and the voltage drops to 6.8V.</p>				

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