

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:

<b>SPECIFICATION</b>					
<b>MODEL</b>	LC-2202	<b>NAME</b>	Class 2 battery charger	<b>PHOTO</b>	
<b>PART NO.</b>		<b>SPEC.</b>	12V 400mA		
Switch Power Supply; For 12V lead-acid battery only.					
<b>INPUT PROPERTY</b>					
I	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	0.13A@115Vac/0.09A@230Vac	Max. (RMS)	
	5	AC input power	10.5W	Max.	
	6	AC input static state current	35mA	Max.	
	<b>OUTPUT PROPERTY</b>				
	1	Output voltage range	10~15Vdc		
	2	Output Current	400mA@12Vdc	±10%	
	3	Output power	6W	Max.	
	4	Bulk charge current rating	400mA	Typical	
	5	Bulk charge voltage rating	14.7Vdc	±0.3Vdc	
	6	Float charge voltage rating	13.65Vdc	±0.15Vdc	
	7	Light switching current	80mA	±20mA	
<b>GENERAL CHARACTERISTICS</b>					
II	1	Efficiency	60%	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%		
<b>INDICATOR STATUS</b>					
III	1	Green LED on	Empty load or float charge		
	2	Red LED on	Bulk charge		
	3				
	4				
	5				



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IV	<b>SAFETY</b>				
	1	Withstand Voltage (Hi-Pot)	$3750V_{ac} \leq 10mA$ (60s)	I/P to O/P	
	2	Insulation Resistance	$>100M\Omega @500V_{dc}$	$25^{\circ}C$ & 70%RH	
	3	Temperature Rise	$<75^{\circ}C$	Case	
	4	Safety Standard	UL1310 (E248494)		
	5	EMI/RFI Standard	Designed to meet EN55022-B		
VI	<b>RELIABILITY</b>				
	1	Spot test	Burn in 24h at $40^{\circ}C$	Full load	
	2	Whole test	Burn in 1h at $40^{\circ}C$	Full load	
VII	<b>MECHANICAL CHARACTERISTICS</b>				
	1	Net Weight	205g		
	2	Dimension	82mm*57 mm*45mm	L×W×H	
	3	Enclosure	Plastic case		
VIII	<b>CHARGER CHARACTERISTICS</b>				
	<p>The graph plots Charge current (A) on the left y-axis (0A, 80mA, 400mA) and Charge voltage (V) on the right y-axis (0V, 10V, 13.65V, 14.7V). The x-axis represents time, divided into three phases: Constant current, Constant voltage, and Float charge. In the Constant current phase, the current is constant at 400mA while the voltage rises from 10V to 14.7V. In the Constant voltage phase, the current decreases from 400mA to 80mA while the voltage remains constant at 14.7V. In the Float charge phase, the current remains at 80mA and the voltage drops slightly to 13.65V.</p>				

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