


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-2203	NAME	Class 2 battery charger	PHOTO 
PART NO.		SPEC.	12V 500mA	
Switch Power Supply; For 12V 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	0.14A@115Vac/0.1A@230Vac	Max. (RMS)
	5	AC input power	13W	Max.
	6	AC input static state current	35mA	Max.
	OUTPUT PROPERTY			
	1	Output voltage range	10~15Vdc	
	2	Output Current	500mA@12Vdc	±10%
	3	Output power	7.5W	Max.
	4	Bulk charge current rating	500mA	Typical
	5	Bulk charge voltage rating	14.7Vdc	±0.3Vdc
	6	Float charge voltage rating	13.65Vdc	±0.15Vdc
7	Light switching current	100mA	± 25mA	
II	GENERAL CHARACTERISTICS			
	1	Efficiency	62%	Typical
	2	Over load protection	<0.8 A	
	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			

PREPARED BY:

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IV	SAFETY				
	1	Withstand Voltage (Hi-Pot)	3000Vac ≤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		
RELIABILITY					
VI	1	Spot test	Burn in 24h at 40°C	Full load	
	2	Whole test	Burn in 1h at 40°C	Full load	
	3				
VII	MECHANICAL CHARACTERISTICS				
	1	Net Weight	205g		
	2	Dimension	82mm×55.5mm×47mm	L×W×H	
	3	Enclosure	Plastic case		
VIII	CHARGER CHARACTERISTICS				
	<p>The graph plots Charge current (A) on the left y-axis (0A, 100m, 500mA) 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 500mA while the voltage rises. In the Constant voltage phase, the current decreases as the voltage reaches 14.7V. In the Float charge phase, the current drops to 0A and the voltage is maintained at 13.65V.</p>				

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