


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

FILE NO.:

VERSION NO.:A1

DATE:

SPECIFICATION				
MODEL	LC1-12-1A	NAME	CLASS 2 BATTERY CHARGER	PHOTO 
PART NO.	LC-2122	SPEC.	12V 1A	
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	0.37A@ 115Vac/0.20A @ 230Vac	Max. (RMS)
	5	AC input power	18W	Max.
	6	AC input static state current	35mA	Max. (RMS)
	OUTPUT PROPERTY			
	1	Output voltage range	10-15.0Vdc	
	2	Output Current	1A @ 12Vdc	± 10%
	3	Output power	15W	Max.
	4	Bulk charge current rating	1A	Typical
	5	Bulk charge voltage rating	14.7Vdc	± 0.3Vdc
	6	Float charge voltage rating	13.65Vdc	± 0.15Vdc
7	Light switching current	200mA	± 50mA	
II	GENERAL CHARACTERISTICS			
	1	Efficiency	75% (Typical)	At Max. Load
	2	Over load protection	<1.5A	
	3	Short circuit protection	Within 5 sec.	
	4	Reversed polarity connectors protection	Prohibit	
	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			

PREPARED BY:

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MODEL	LC1-12-1A	NAME	CLASS 2 BATTERY CHARGER	SPEC.	12V 1A
IV	SAFETY				
	1	Withstand Voltage (Hi-Pot)	3750Vac 10mA (60 Sec.)		I/p to O/p
	2	Insulation resistance	>100MΩ @ 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		
	3				
VII	MECHANICAL CHARACTERISTICS				
	1	Net Weight	470g		
	2	Dimension	138mm×72mm×42mm		L×W×H
	3	Enclosure	Plastic case		
VIII	CHARGE CHARACTERISTICS				
	<p>The graph illustrates the charging profile. The left y-axis represents Charge current (A) with markers at 0A, 200mA, and 1A. The right y-axis represents Charge voltage (V) with markers at 0V, 10V, 13.65V, and 14.7V. The x-axis is divided into three stages: Constant current, Constant voltage, and Float charge. In the Constant current stage, current is constant at 1A while voltage rises from 0V to 10V. In the Constant voltage stage, current decreases from 1A to 0A while voltage rises from 10V to 13.65V. In the Float charge stage, current is near 0A and voltage is constant at 14.7V.</p>				

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