


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

FILE NO.:

VERSION NO.:S-2

DATE:

<b>SPECIFICATION</b>					
<b>MODEL</b>	LC-2214	<b>NAME</b>	CLASS 2 BATTERY CHARGER	<b>PHOTO</b>	
<b>PART NO.</b>		<b>SPEC.</b>	24V 1A		
Switch Power Supply; For 12V lead-acid battery only.					
I	<b>INPUT PROPERTY</b>				
	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	0.35A@ 115Vac/0.18A @ 230Vac	Max. (RMS)	
	5	AC input power	38W	Max.	
	6	AC input static state current	50mA	Max. (RMS)	
	<b>OUTPUT PROPERTY</b>				
	1	DC Output voltage range	20~30Vdc		
	2	DC Output Current	1A @ 24Vdc	± 10%	
	3	DC Output power	29W	Max.	
	4	Bulk charge current rating	1.0A	Typical	
	5	Bulk charge voltage rating	29.4Vdc	± 0.6Vdc	
	6	Float charge voltage rating	27.3Vdc	± 0.3Vdc	
7	Light switching current	200mA	± 50mA		
II	<b>GENERAL CHARACTERISTICS</b>				
	1	Efficiency	78% (Typical)	At Max. Load	
	2	Over load protection	<1.5A		
	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	<b>INDICATOR STATUS</b>				
	1	Green LED on	Floating charge or empty load		
	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	$<75^{\circ}C$	Enclosure	
	4	Safety Standard	UL1310 (E248494)	Approved	
	5	EMI/RFI Standard	Designed to meet EN55022-B		
VI	<b>RELIABILITY</b>				
	1	Spot test	Burn in 24 hours at $40^{\circ}C$		
	2	Whole test	Burn in 1 hour at $40^{\circ}C$		
VII	<b>MECHANICAL CHARACTERISTICS</b>				
	1	Net Weight	430g		
	2	Dimension	$138mm \times 72mm \times 42mm$	L×W×H	
VIII	<b>CHARGER CHARACTERISTICS</b>				
	<p>The graph plots Charge current (A) on the left y-axis (0A, 200mA, 1.0A) and Charge voltage (V) on the right y-axis (0V, 20V, 27.3V, 29.4V). 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 200mA to 1.0A while the voltage rises from 20V to 27.3V. In the Constant voltage phase, the current remains at 1.0A while the voltage rises to 29.4V. In the Float charge phase, the current drops to 0A and the voltage remains at 29.4V.</p>				

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