

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-2210	NAME	Class 2 battery charger	PHOTO	
PART NO.		SPEC.	24V 500mA		
Switch Power Supply; For 24V lead-acid battery only.					
INPUT PROPERTY					
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	0.16A@115Vac/0.13A@230Vac	Max. (RMS)	
	5	AC input power	22W	Max.	
	6	AC input static state current	40mA	Max.	
	OUTPUT PROPERTY				
	1	Output voltage range	20~30Vdc		
	2	Output Current	500mA@24Vdc	±10%	
	3	Output power	14.2W	Max.	
	4	Bulk charge current rating	500mA	Typical	
	5	Bulk charge voltage rating	29.4Vdc	±0.6Vdc	
	6	Float charge voltage rating	27.3Vdc	±0.3Vdc	
7	Light switching current	100mA	±25mA		
GENERAL CHARACTERISTICS					
II	1	Efficiency	68%	Typical	
	2	Over load protection	<0.75A		
	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%		
INDICATOR STATUS					
III	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)	$3750V_{ac} \leq 10mA$ (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	RELIABILITY				
	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	MECHANICAL CHARACTERISTICS				
	1	Net Weight	205g		
	2	Dimension	82mm*57mm*45mm	L×W×H	
	3	Enclosure	Plastic case		
VIII	CHARGER CHARACTERISTICS				
	<p>The graph illustrates the charging characteristics of the Class 2 battery charger. It plots Charge current (A) on the left y-axis (0A to 500mA) and Charge voltage (V) on the right y-axis (0V to 29.4V). The x-axis represents time, divided into three stages: Constant current, Constant voltage, and Float charge. In the Constant current stage, the current is constant at 500mA while the voltage rises from 20V to 29.4V. In the Constant voltage stage, the voltage is constant at 29.4V while the current decreases from 500mA to 100mA. In the Float charge stage, the voltage drops to 27.3V and the current remains at 100mA.</p>				

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