

广东迈科盛电子有限公司

GUANGDONG MARXON ELECTRIC VEHICLE CO.,LTD.

FILE NO.:

VERSION NO.:A/0

DATE:2023-05-23

SPECIFICATION

MODEL	LC-2259	NAME	Class 2 battery charger			PHOTO	
PART NO.		SPEC.	6V 12V 10A				
Switch Power Supply; For 6V/12V lead-acid or 12.8V LiFePo4 battery only.							
I	INPUT PROPERTY						
	1	AC input voltage range		108Vac~132Vac/185Vac~264Vac			
	2	AC input voltage rating		115Vac/230V			
	3	AC input frequency		50/60Hz			
	4	AC input current		1.5A@120Vac/0.75@230Vac			Max. (RMS)
	5	AC input power		180W			Max.
	6	AC input static state current		0.1A			Max.
	7	AC input wire		EP 2Pin Plug SPT-2 18AWG*2C L=1.8M			
	OUTPUT PROPERTY						
	1	Output voltage range		1~15.5Vdc			Typical
	2	Output Current		10A@12Vdc/6Vdc			±10%
	3	Output power		150W			Max.
	4	Soft start current	NORMAL/AGM LiFePo4	12V	3A@V<7V	±0.3A	
				6V	3A@V<3.5V		
	5	Bulk charge voltage rating	12V	NORMAL 14.5 Vdc		±0.3Vdc	
				AGM 14.7 Vdc			
				LIFE 14.4 Vdc			
			6V	NORMAL 7.25V		±0.2Vdc	
				AGM 7.35V			
	6	Battery repair voltage rating	12V	15.5Vdc		±0.3Vdc	
			6V	7.75V		±0.2Vdc	
	7	Float charge voltage rating	12V	13.6Vdc		±0.3Vdc	
			6V	6.8V		±0.2Vdc	
	8	Light switching current		1A			±0.3A
	9	Output wire		SPT-2 Black 16AWG *2C L=1.3M Fast connector			
	10	Accessories1		SPT-2 Black 16AWG *2C L=0.5M M6 Terminal with circular ring (equipped with 20A fuse)			
	1	Accessories2		SPT-2 Black 16AWG *2C L=0.5M With clamp (equipped with 20A fuse)			
	II	GENERAL CHARACTERISTICS					
1		Efficiency		85%			Typical
2		Over load protection		<12A			
3		Short circuit protection		Enable			Error red light on
4		Reversed polarity protection		Enable			Error red light flashing
5		overheating protection		Enable			Error red light flashing
6		Spark proof protection		Enable			
7		Over voltage protection		Enable			Error red light flashing
8		Operating temperature		-0℃~40℃			
9		Storage temperature		-30℃~85℃			
10		Operating relative humidity		8%~90%			
11		Storage relative humidity		5%~95%			

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III	INDICATOR STATUS				
	1	battery indicator	Red(25%)/ Orange (50%)/ Yellow (75%)/Green(100%)		Indicating battery level
	2	Charging indicator	Green light on		charging
	3	Repair indicator	Red light on		repairing
	4	Error indicator	Red light Flash		
	5	Function indicator	Blue light on		
IV	SAFETY				
	1	Withstand Voltage (Hi-Pot)	1500Vac ≤10mA (60s)		I/P to O/P
	2	Insulation Resistance	>100MΩ @500Vdc		25℃ &70%RH
	3	Temperature Rise	<75℃		Case
	4	Safety Standard	ETL		
	5	EMI/RFI Standard	FCC Part 15 B		
	6	Energy Standard	DOE		
	7	IP Standard	IP65		
V	RELIABILITY				
	1	Spot test	Burn in 24h at 40℃		Full load
	2	Whole test	Burn in 1h at 40℃		Full load
VI	MECHANICAL CHARACTERISTICS				
	1	Net Weight			
	2	Dimension	193*110*65.9mm		
	3	Enclosure	Plastic case		
VII	CHARGE CHARACTERISTICS				
	The graph illustrates the charging process with two curves: Voltage (V) and Current (A) plotted against Time. The process is divided into four stages: Stage1 (Pre-charge) with low current and rising voltage; Stage2 (Constant Current) with a constant high current and linearly increasing voltage; Stage3 (Constant Voltage) with a sharp drop in current and constant high voltage; and Stage4 (Float charge) with very low current and constant high voltage.				

PREPARED BY:

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