


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

| SPECIFICATION | | | | |
|--|--------------------------------|---|-------------------------------|---|
| MODEL | LC5-24-12A | NAME | CLASS 2 BATTERY CHARGER | PHOTO  |
| PART NO. | LC-2156 | SPEC. | 24V 12A | |
| Switch Power Supply; For 24V lead-acid battery only. | | | | |
| I | INPUT PROPERTY | | | |
| | 1 | AC input voltage range | 90Vac~132Vac/185Vac~264Vac | |
| | 2 | AC input voltage rating | 100Vac~120Vac/200Vac~240Vac | |
| | 3 | AC input frequency | 60Hz/50Hz | |
| | 4 | AC input current | 5.4A @ 115Vac/3A @ 230Vac | Max. (RMS) |
| | 5 | AC input power | 480W | Max. |
| | 6 | AC input static state current | 0.16A | Max. (RMS) |
| | OUTPUT PROPERTY | | | |
| | 1 | Output voltage range | 17-30.0Vdc | |
| | 2 | Output Current | 12A @ 24Vdc | ± 5% |
| | 3 | Output power | 360W | Max. |
| | 4 | Bulk charge current rating | 12A | Typical |
| | 5 | Bulk charge voltage rating | 29.4Vdc | ±0.6Vdc |
| | 6 | Float charge voltage rating | 27.3Vdc | ±0.3Vdc |
| 7 | Light switching current | 2. 4A | ± 600mA | |
| II | GENERAL CHARACTERISTICS | | | |
| | 1 | Efficiency | 80% (Typical) | At Max. Load |
| | 2 | Over load protection | <18A | |
| | 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 | Red LED on | Power on | |
| | 2 | Orange LED on | Bulking charge | |
| | 3 | Green LED on | Floating charge or empty load | |
| | 4 | | | |
| | 5 | | | |

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| IV | SAFETY | | | | |
| | 1 | Withstand Voltage (Hi-Pot) | 3000Vac 10mA (60 Sec.) | I/p to O/p | |
| | 2 | Insulation resistance | More than 100MΩ at 500Vdc | 25°C & 70%RH | |
| | 3 | Temperature Rise | <75°C | Enclosure | |
| | 4 | Safety Standard | Designed to meet UL1012/CSA | | |
| | 5 | EMI/RFI Standard | Designed to meet CE Class B | EN55022-B | |
| VI | RELIABILITY | | | | |
| | 1 | Spot test | Burn in 24 hours at 40°C | Full load | |
| | 2 | Whole test | Burn in 1 hour at 40°C | Full load | |
| | 3 | | | | |
| VII | MECHANICAL CHARACTERISTICS | | | | |
| | 1 | Net Weight | 1.5Kg | | |
| | 2 | Dimension | 208mm×130mm×82mm | L×W×H | |
| | 3 | Enclosure | Metal case | | |
| VIII | CHARGER CHARACTERISTICS | | | | |
| | <p>The graph plots Charge current (A) on the left y-axis (0A, 4A, 12A) 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 is constant at 12A while the voltage rises from 20V to 29.4V. In the Constant voltage phase, the current decreases from 12A to 4A while the voltage remains constant at 29.4V. In the Float charge phase, the current drops to approximately 0A and the voltage drops to 27.3V.</p> | | | | |

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