

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:

| <b>SPECIFICATION</b>                                |                                |   |                            |   |
|---|--------------------------------|---|----------------------------|---|
| <b>MODEL</b>  | LC-2198                        | <b>NAME</b>                             | Class 2 battery charger    | <b>PHOTO</b><br> |
| <b>PART NO.</b>                                     |                                | <b>SPEC.</b>                            | 6V 0.6A                    |   |
| Switch Power Supply; For 6V lead-acid battery only. |                                |   |                            |   |
| I   | <b>INPUT PROPERTY</b>          |   |                            |   |
|   | 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                        | 0.13A@115Vac/0.09A@230Vac  | Max. (RMS)  |
|   | 5                              | AC input power                          | 8W                         | Max.  |
|   | 6                              | AC input static state current           | 20mA                       | Max.  |
|   | <b>OUTPUT PROPERTY</b>         |   |                            |   |
|   | 1                              | Output voltage range                    | 5.0~7.5Vdc                 |   |
|   | 2                              | Output Current                          | 0.6A@6Vdc                  | ±10%  |
|   | 3                              | Output power                            | 4.5W                       | Max.  |
|   | 4                              | Bulk charge current rating              | 0.6A                       | Typical   |
|   | 5                              | Bulk charge voltage rating              | 7.35Vdc                    | ±0.15Vdc  |
|   | 6                              | Float charge voltage rating             | 6.8Vdc                     | ±0.1Vdc   |
| 7   | Light switching current        | 120mA                                   | ± 30mA                     |   |
| II  | <b>GENERAL CHARACTERISTICS</b> |   |                            |   |
|   | 1                              | Efficiency                              | 58%                        | Typical   |
|   | 2                              | Over load protection                    | <0.9A                      |   |
|   | 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                            | Empty load or float charge |   |
|   | 2                              | Red LED on                              | Bulk charge                |   |
|   | 3                              |   |                            |   |
|   | 4                              |   |                            |   |
|   | 5                              |   |                            |   |

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|----------------------|--|----------------------------|----------------------------|-------|--------------|
| MODEL                | LC-2198  | NAME                       | Class 2 battery charger    | SPEC. | 6V 0.6A      |
| IV                   | <b>SAFETY</b>  |                            |                            |       |              |
|                      | 1  | Withstand Voltage (Hi-Pot) | 3750Vac ≤10mA (60s)        |       | I/P to O/P   |
|                      | 2  | Insulation Resistance      | >100MΩ @500Vdc             |       | 25°C & 70%RH |
|                      | 3  | Temperature Rise           | <75°C                      |       | Case         |
|                      | 4  | Safety Standard            | UL1310 (E248494)           |       |              |
|                      | 5  | EMI/RFI Standard           | Designed to meet EN55022-B |       |              |
| VI                   | <b>RELIABILITY</b>   |                            |                            |       |              |
|                      | 1  | Spot test                  | Burn in 24h at 40°C        |       | Full load    |
|                      | 2  | Whole test                 | Burn in 1h at 40°C         |       | Full load    |
| VII                  | <b>MECHANICAL CHARACTERISTICS</b>  |                            |                            |       |              |
|                      | 1  | Net Weight                 | 162g                       |       |              |
|                      | 2  | Dimension                  | 67.5mm*52.5mm*40.5mm       |       | L×W×H        |
|                      | 3  | Enclosure                  | Plastic case               |       |              |
| VIII                 | <b>CHARGER CHARACTERISTICS</b>   |                            |                            |       |              |
|                      | <p>The graph illustrates the charging characteristics of the Class 2 battery charger. The left y-axis represents Charge current (A) with markers at 0A, 120mA, and 0.6A. The right y-axis represents Charge voltage (V) with markers at 0V, 5V, 6.8V, and 7.35V. The x-axis is divided into three phases: Constant current, Constant voltage, and Float charge. In the Constant current phase, the current increases from 120mA to 0.6A while the voltage rises. In the Constant voltage phase, the current remains at 0.6A as the voltage reaches 7.35V. In the Float charge phase, the current drops to near 0A and the voltage drops to 6.8V.</p> |                            |                            |       |              |

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