

## TECHNICAL DATA

# LION 11 24V/40A BATTERY CHARGERS

### STATED DATA ACCORDING TO MICROPOWER STANDARD

|             |         |
|-------------|---------|
| Part number | L12300  |
| Model       | Lion 11 |
| Type        | 24V/40A |

#### MAINS DATA (50/60HZ)

|                                |                       |
|--------------------------------|-----------------------|
| Output Voltage [V]             | 24                    |
| Output Current [A]             | 40                    |
| Number of phases               | 1                     |
| Rated Voltage range [V]        | 220-240               |
| Current at nominal voltage [A] | 5,5                   |
| Recommended supply fuse [A]    | 10                    |
| Supply cable area              | 3x1,0 mm <sup>2</sup> |
| Supply cable length [m]        | 2,3                   |
| Typical Supply Connector       | 10A Schuko            |
| Output cable cross-section     | 10 mm <sup>2</sup>    |

#### BATTERY CONNECTION

|                                  |                    |
|----------------------------------|--------------------|
| Output cable cross-section       | 10 mm <sup>2</sup> |
| Output cable terminals (in unit) | M5                 |
| Output cable length [m]          | 2                  |
| Typical Output connector         | User defined       |
| Output Voltage [V]               | 24                 |

#### ELECTRIC DATA

|                                 |      |
|---------------------------------|------|
| Standby Power Consumption [W]   | <5   |
| Power Consumption [W]           | 1307 |
| Apparent Power Consumption [VA] | 1320 |

|                                                |      |
|------------------------------------------------|------|
| Power Factor                                   | 0,99 |
| Inrush current, do not tripp fuse of class [A] | B    |
| Output Ripple                                  | <5   |
| Efficiency (at rated power and no cables) [%]  | 92   |

## PROPERTIES

|                                                          |            |
|----------------------------------------------------------|------------|
| Ingress protection                                       | IP20       |
| Ambient temperature range (at full output power) [deg C] | -35 to +40 |
| Ambient max temp (with reduced output power) [deg C]     | 55         |
| Cooling                                                  | Convection |
| Short Circuit Protection                                 | 1          |
| Wrong Polarity Protection                                | Fuse       |
| Cabinet Type                                             | S40        |
| Certifications                                           | CE         |
| HMI                                                      | LED        |
| HMI Language                                             | -          |
| Reporting                                                | No         |
| Radio Communication                                      | No         |
| Charging Curve Set                                       | N/A        |
| I/O-cards                                                | Optional   |
| CE                                                       | Yes        |
| UL                                                       | No         |

## CHARGING TIMES

|                    |     |
|--------------------|-----|
| 6 Hours cap.ah/5h  | 235 |
| 8 Hours cap.ah/5h  | 340 |
| 10 Hours cap.ah/5h | 445 |
| 12 Hours cap.ah/5h | 550 |

## CHARGER DIMENSIONS

|                              |     |
|------------------------------|-----|
| Weight excl. cables [kg]     | 3.2 |
| Weight incl. cables [kg]     | 3.9 |
| Outer Dimensions Height [mm] | 262 |

|                             |                 |
|-----------------------------|-----------------|
| Outer Dimensions Width [mm] | 230             |
| Outer Dimensions Depth [mm] | 80              |
| Min Spacing Required        | See User Manual |

## SHIPPING DIMENSIONS

|                      |     |
|----------------------|-----|
| Shipping Weight [kg] | 4.5 |
| Box Height [mm]      | 135 |
| Box Width [mm]       | 380 |
| Box Depth [mm]       | 250 |

## CHARGING

|                     |                       |
|---------------------|-----------------------|
| Charging Ionic      |                       |
| Charging Standard   |                       |
| Charging Gel        |                       |
| Charging Li-Ion     | CAN bus, external BMS |
| Charging AGM        |                       |
| Moisture Resistance | No                    |
| Dusty Environment   | No                    |
| Outdoor use         | No                    |
| Cold store          | No                    |
| Tropical            | No                    |

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