MICROPOWER GROUP™
POWERFUL SOLUTIONS PARTNER

# TECHNICAL DATA

# MICROPOWER ST50 LI 48V/80A BATTERY CHARGERS

## STATED DATA ACCORDING TO MICROPOWER STANDARD

| | |
|---|---|
| Family | ST50 |
| DC Rating | 48V/80A |
| Part number | LN4386 |
| Model code | 1AM64N3 |
| Part status | Released |

## SUPPLY

| | |
|---|---|
| Mains Phase | 3 |
| Input Voltage [V] | 480 |
| Nominal Voltage [V] | 480 |
| Rated frequency [Hz] | 50-60 |
| Max Mains Current (at nominal mains V) [A] | 6,3 |
| Current at min rated voltage [A] | 6,3 |
| Current at max rated voltage [A] | 6,3 |
| Recommended supply fuse class | C |
| Recommended RCCB class | B |
| Mains Cable Area [mm2] | 4xAWG14 |
| Mains Cable Length [m] | □2.5 |
| Mains Connector | L16-20P |
| Standby Power Consumption [W] | <2,5 |
| Power Consumption [W] | 4907 |
| Apparent Power Consumption [VA] | 5215 |
| Power Factor | 0,94 |
| Leakage current [mA] | <3,5 |
| Efficiency (at rated power and no cables) [%] | 95 |

## OUTPUT DATA

| | |
|---|---|
| Reversed polarity protection | Fuse |
| Short Circuit Protection | Yes |
| Output Voltage [V] | 48 |
| Output Current [A] | 80 |
| Battery Cable [mm2] | #4 AWG |
| Battery Cable Length [m] | 3 |
| Battery Cable Connection (in charger) | M6 |
| Battery Connector (not included) | DIN80 |
| Output fuse, rating [A/VDC] | 100A/150VDC |
| Output fuse type | Fast Semiconductor fuse |

## PROPERTIES

| | |
|---|---|
| IP Protection | IP21 |
| Operation Temperature [deg C] | -5 to +40 |
| Ambient Max Temperature (with reduced capacity) [deg C] | 50 |
| Ambient storage and transport temperature [C] | -40 to +80/1000h |
| Maximum operating altitude [m] | 2000 |
| Maximum humidity, non-condensing [%rh] | 90 |
| Cooling | Fan |
| Cabinet Type | A24 |
| Certifications | UL |
| Cloud connection | Yes |
| User interface | LED/Display |
| Charging Curve Set | Litium Alg or CAN |
| I/O-cards | CAN/Detect |
| Bluetooth/ NFC connectivity | Yes |
| Remote connectivity & advanced software functions | Yes |

## CHARGER DIMENSIONS

| | |
|---|---|
| Charger Weight excl. Cables [kg] | 8 |
| Charger dimensions [mm] | 338x335x239 |

## SHIPPING DIMENSIONS

| | |
|---|---|
| Box dimensions [mm] | 350x380x530 |
| Shipping Weight [kg] | 13 |

*The information in this document is subject to change without notice and should not be construed as a commitment by Micropower Sweden AB.*

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