

## TECHNICAL DATA

# MICROPOWER ST50 PB 48V/80A BATTERY CHARGERS

### STATED DATA ACCORDING TO MICROPOWER STANDARD

|             |          |
|-------------|----------|
| Family      | ST50     |
| DC Rating   | 48V/80A  |
| Part number | AN4386   |
| Model code  | 1AA64N3  |
| Part status | Released |

### SUPPLY

|                                               |         |
|-----------------------------------------------|---------|
| Number of phases                              | 3       |
| Rated Voltage range [V]                       | 480     |
| Nominal Voltage [V]                           | 480     |
| Rated frequency [Hz]                          | 50-60   |
| Current at nominal voltage [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       |
| Supply cable area                             | 4xAWG14 |
| Supply cable length [m]                       | 12,5    |
| Typical Supply 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                      |
| Output cable cross-section       | #4 AWG                  |
| Output cable length [m]          | 3                       |
| Output cable terminals (in unit) | M6                      |
| Typical Output connector         | DIN80                   |
| Output fuse, rating [A/VDC]      | 100A/150VDC             |
| Output fuse type                 | Fast Semiconductor fuse |

## PROPERTIES

|                                                      |                  |
|------------------------------------------------------|------------------|
| Ingress protection                                   | IP21             |
| Operation Temperature [deg C]                        | -5 to +40        |
| Ambient max temp (with reduced output power) [deg C] | 50               |
| Ambient storage and transport temperature [C]        | -40 to +80/1000h |
| Maximum operating altitude [m]                       | 2000             |
| Maximum humidity, non-condensing [%]                 | 90               |
| Cooling                                              | Convection       |
| Cabinet Type                                         | A24              |
| Certifications                                       | UL               |
| Cloud connection                                     | Yes              |
| User interface                                       | LED/Display      |
| Charging Curve Set                                   | Multiple Lead    |
| I/O-cards                                            | Optional         |
| Reporting                                            | Yes              |
| Radio communication                                  | Yes              |

## CHARGER DIMENSIONS

|                          |             |
|--------------------------|-------------|
| 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.