

## TECHNICAL DATA

# MICROPOWER ST50 PB 48V/80A BATTERY CHARGERS

### STATED DATA ACCORDING TO MICROPOWER STANDARD

|             |          |
|-------------|----------|
| Family      | ST50     |
| DC Rating   | 48V/80A  |
| Part number | AN4389   |
| Model code  | 1AA6453  |
| Part status | Released |

### SUPPLY

|                                               |                       |
|-----------------------------------------------|-----------------------|
| Number of phases                              | 3                     |
| Rated Voltage range [V]                       | 380-440               |
| Nominal Voltage [V]                           | 400                   |
| Rated frequency [Hz]                          | 50-60                 |
| Current at nominal voltage [A]                | 7,4                   |
| Current at min rated voltage [A]              | 7,8                   |
| Current at max rated voltage [A]              | 6,7                   |
| Recommended supply fuse class                 | C                     |
| Recommended RCCB class                        | B                     |
| Supply cable area                             | 4x1,5 mm <sup>2</sup> |
| Supply cable length [m]                       | 12,5                  |
| Typical Supply Connector                      | CEE16                 |
| Standby Power Consumption [W]                 | <2,5                  |
| Power Consumption [W]                         | 4867                  |
| Apparent Power Consumption [VA]               | 5112                  |
| Power Factor                                  | 0,95                  |
| Leakage current [mA]                          | <3,5                  |
| Efficiency (at rated power and no cables) [%] | 96                    |

## OUTPUT DATA

|                                  |                         |
|----------------------------------|-------------------------|
| Reversed polarity protection     | Fuse                    |
| Short Circuit Protection         | Yes                     |
| Output Voltage [V]               | 48                      |
| Output Current [A]               | 80                      |
| Output cable cross-section       | 25 mm <sup>2</sup>      |
| 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             |
| Ambient temperature range (at full output power) [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 [%rh]                   | 90               |
| Cooling                                                  | Convection       |
| Cabinet Type                                             | A24              |
| Certifications                                           | CE               |
| 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.*