

## TECHNICAL DATA

# SHARP 20 BATTERY CHARGERS

### STATED DATA ACCORDING TO MICROPOWER STANDARD

|             |          |
|-------------|----------|
| Part number | 924427   |
| Model       | SHARP 20 |
| Type        | 48V/30A  |

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

|                                |            |
|--------------------------------|------------|
| Output Voltage [V]             | 48         |
| Output Current [A]             | 30         |
| Number of phases               | 1          |
| Rated Voltage range [V]        | 220-240    |
| Current at nominal voltage [A] | 8,6        |
| Recommended supply fuse [A]    | 10         |
| Supply cable area              | 3x1,5      |
| Supply cable length [m]        | 2,5        |
| Typical Supply Connector       | 10A Schuko |
| Output cable cross-section     | 2x10       |

#### BATTERY CONNECTION

|                                  |              |
|----------------------------------|--------------|
| Output cable cross-section       | 2x10         |
| Output cable terminals (in unit) | M6           |
| Output cable length [m]          | 2            |
| Typical Output connector         | User defined |
| Output Voltage [V]               | 48           |

#### ELECTRIC DATA

|                                 |      |
|---------------------------------|------|
| Standby Power Consumption [W]   | <5   |
| Power Consumption [W]           | 1956 |
| Apparent Power Consumption [VA] | 1975 |

|                                                |            |
|------------------------------------------------|------------|
| Power Factor                                   | 0,99       |
| Inrush current, do not tripp fuse of class [A] | Negligible |
| Output Ripple                                  | <1         |
| Efficiency (at rated power and no cables) [%]  | 89         |

## PROPERTIES

|                                                          |                  |
|----------------------------------------------------------|------------------|
| Ingress protection                                       | IP20             |
| Ambient temperature range (at full output power) [deg C] | -5 to +40        |
| Ambient max temp (with reduced output power) [deg C]     | 50               |
| Cooling                                                  | Fan              |
| Short Circuit Protection                                 | 1                |
| Wrong Polarity Protection                                | Electronic       |
| Cabinet Type                                             | P6               |
| Certifications                                           |                  |
| HMI                                                      | LED              |
| HMI Language                                             | -                |
| Reporting                                                | No               |
| Radio Communication                                      | No               |
| Charging Curve Set                                       | 10-04,06 & 20-09 |
| I/O-cards                                                | No               |
| CE                                                       | Yes              |
| UL                                                       | No               |

## CHARGING TIMES

|                    |     |
|--------------------|-----|
| 6 Hours cap.ah/5h  | 153 |
| 8 Hours cap.ah/5h  | 230 |
| 10 Hours cap.ah/5h | 314 |
| 12 Hours cap.ah/5h | 399 |

## CHARGER DIMENSIONS

|                              |     |
|------------------------------|-----|
| Weight excl. cables [kg]     |     |
| Weight incl. cables [kg]     |     |
| Outer Dimensions Height [mm] | 295 |

|                             |     |
|-----------------------------|-----|
| Outer Dimensions Width [mm] | 138 |
| Outer Dimensions Depth [mm] | 89  |
| Min Spacing Required        | 150 |

SHIPPING DIMENSIONS

|                      |     |
|----------------------|-----|
| Shipping Weight [kg] | 3   |
| Box Height [mm]      | 390 |
| Box Width [mm]       | 250 |
| Box Depth [mm]       | 140 |

CHARGING

|                     |                                           |
|---------------------|-------------------------------------------|
| Charging Ionic      | LK10-04 Chemical Acid Circulation (Ionic) |
| Charging Standard   | LK10-06 Standard Curve                    |
| Charging Gel        | LK20-09                                   |
| Charging Li-Ion     | 0                                         |
| Charging AGM        | LK20-09                                   |
| Moisture Resistance | No                                        |
| Dusty Environment   | No                                        |
| Outdoor use         | No                                        |
| Cold store          | No                                        |
| Tropical            | No                                        |