

TECHNICAL DATA

**SHARP 100 BATTERY CHARGER**

STATED DATA ACCORDING TO MICROPOWER STANDARD

| VARIABLE   | UNIT  | VALUE        |              |              |              |              |              |              |              |              |
|--|-------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Part number  | -     | SS2523       | SR2521       | SS2524       | SS2563       | SS2566       | SS2621       | SS3483       | SR3481       | SS3484       |
| Model  | -     | SHARP 100    | SHARP 100    | SHARP 100    | SHARP 100    | SHARP 100    | SHARP 100    | SHARP 100    | SHARP 100    | SHARP 100    |
| Type   | -     | 24V/150A     | 24V/150V     | 24V/150V     | 24V/170A     | 24V/170A     | 24V/200A     | 36V/130A     | 36V/130A     | 36V/130A     |
| Output voltage   | V     | 24           | 24           | 24           | 24           | 24           | 24           | 36           | 36           | 36           |
| Output current (at 2,4 Vpc)  | A     | 150          | 150          | 150          | 170          | 170          | 200          | 130          | 130          | 130          |
| <b>MAINS DATA</b>  |       |              |              |              |              |              |              |              |              |              |
| Mains phase  | -     | 3 Phase      | 3 Phase      | 3 Phase      | 3 Phase      | 3 Phase      | 3 Phase      | 3 Phase      | 3 Phase      | 3 Phase      |
| Mains voltage supply   | V     | 208-240      | 380-415      | 440-440      | 208-240      | 480-480      | 380-415      | 208-240      | 380-415      | 440-440      |
| Mains current (at min rated mains V)   | A     | 14,3         | 7,8          | 6,7          | 16,2         | 7,0          | 10,3         | 18,2         | 9,9          | 8,5          |
| Mains current (at max rated mains V)   | A     | 12,4         | 7,1          | -            | 14,0         | -            | 9,4          | 15,8         | 9,0          | -            |
| Max mains fuse   | A     | 16           | 16           | 16           | 32           | 16           | 16           | 32           | 16           | 16           |
| Mains cable dimensions   | mm2   | 4x2,5        | 4x1,5        | 4x1,5        | 4x2,5        | 4xAWG14      | 4x1,5        | 4x4          | 4x1,5        | 4x1,5        |
| Mains cable length   | m     | 3            | 3            | 3            | 3            | 3            | 3            | 3            | 3            | 3            |
| Mains connector (included)   | -     | CEE16 (Blue) | CEE16 (Red)  | CEE16 (Red)  | CEE16 (Blue) | NEMA L16-30P | CEE16 (Red)  | CEE32 (Blue) | CEE16 (Red)  | CEE16 (Red)  |
| <b>BATTERY CONNECTION</b>  |       |              |              |              |              |              |              |              |              |              |
| Battery cable  | mm2   | 2x50         | 2x50         | 2x50         | 2x70         | 2xAWG1/0     | 2x95         | 2x50         | 2x50         | 2x50         |
| Battery cable length   | m     | 3            | 3            | 3            | 3            | 3            | 3            | 3            | 3            | 3            |
| Battery connector (not included)   | -     | User defined | User defined | User defined | User defined | User defined | User defined | User defined | User defined | User defined |
| <b>ELECTRIC DATA</b>   |       |              |              |              |              |              |              |              |              |              |
| Standby power consumption  | W     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| Power consumption  | W     | 4900         | 4846         | 4846         | 5536         | 5507         | 6418         | 6246         | 6178         | 6178         |
| Apparent power consumption   | VA    | 5158         | 5101         | 5101         | 5828         | 5797         | 6755         | 6574         | 6503         | 6503         |
| Power factor   | -     | 0,95         | 0,95         | 0,95         | 0,95         | 0,95         | 0,95         | 0,95         | 0,95         | 0,95         |
| Inrush current   | A     | Negligible   | Negligible   | Negligible   | Negligible   | Negligible   | Negligible   | Negligible   | Negligible   | Negligible   |
| Output ripple  | % RMS | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           |
| Efficiency (at rated power and no cables)                                      | %     | 90           | 91           | 91           | 91           | 91           | 91           | 91           | 92           | 92           |
| <b>PROPERTIES</b>  |       |              |              |              |              |              |              |              |              |              |
| Ingress protection   | IP    | IP20         | IP20         | IP20         | IP20         | IP20         | IP20         | IP20         | IP20         | IP20         |
| Ambient temperature range (at full capacity)                                   | °C    | -5 to +40    | -5 to +40    | -5 to +40    | -5 to +40    | -5 to +40    | -5 to +40    | -5 to +40    | -5 to +40    | -5 to +40    |
| Ambient max temp (with reduced capacity)                                       | °C    | 50           | 50           | 50           | 50           | 50           | 50           | 50           | 50           | 50           |
| Cooling  | -     | Fan          | Fan          | Fan          | Fan          | Fan          | Fan          | Fan          | Fan          | Fan          |
| Short circuit protection   | -     | Yes          | No           | Yes          | Yes          | Yes          | No           | Yes          | No           | Yes          |
| Wrong polarity protection  | -     | Fuse         | Fuse         | Fuse         | Fuse         | Fuse         | Fuse         | Fuse         | Fuse         | Fuse         |
| Cabinet type   | -     | S18          | S17          | S18          | S18          | S18          | S18          | S18          | S17          | S18          |
| Certifications   | -     | CE           | CE           | CE           | CE           | UL           | CE           | CE           | CE           | CE           |
| HMI  | -     | LED          | LED          | LED          | LED          | LED          | LED          | LED          | LED          | LED          |
| HMI Language   | -     | -            | -            | -            | -            | -            | -            | -            | -            | -            |
| Radio communication  | -     | No           | No           | No           | No           | No           | No           | No           | No           | No           |
| Charging curve set (specification tab)   | -     | See website  | See website  | See website  | See website  | See website  | See website  | See website  | See website  | See website  |
| I/O-cards  | -     | No           | No           | No           | No           | No           | No           | No           | No           | No           |
| Accessories (accessories tab)  | -     | See website  | See website  | See website  | See website  | See website  | See website  | See website  | See website  | See website  |
| <b>CHARGING TIMES (Charging Curve: LK10-18 with Chemical Acid Circulation)</b> |       |              |              |              |              |              |              |              |              |              |
| 6 h  | Ah C5 | 861          | 861          | 861          | 976          | 976          | 1149         | 746          | 746          | 746          |
| 8 h  | Ah C5 | 1250         | 1250         | 1250         | 1415         | 1415         | 1665         | 1083         | 1083         | 1083         |
| 10 h   | Ah C5 | 1668         | 1668         | 1668         | 1888         | 1888         | 2221         | 1446         | 1446         | 1446         |
| 12 h   | Ah C5 | 2002         | 2002         | 2002         | 2266         | 2266         | 2665         | 1735         | 1735         | 1735         |
| <b>CHARGER DIMENSIONS</b>  |       |              |              |              |              |              |              |              |              |              |
| Charger weight excl. cables  | kg    | 16,1         | 14,3         | 16,1         | 16,1         | 16,1         | 16,1         | 16,1         | 14,3         | 16,1         |
| Charger weight incl. cables  | kg    | 20,2         | 18,2         | 20,0         | 22,0         | 20,4         | 23,0         | 20,7         | 18,2         | 20,0         |
| Dimensions   | -     | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  |
| Fixing center points   | -     | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  |
| Min spacing required   | mm    | 300          | 300          | 300          | 300          | 300          | 300          | 300          | 300          | 300          |
| <b>SHIPPING DIMENSIONS</b>   |       |              |              |              |              |              |              |              |              |              |
| Box height   | mm    | 440          | 440          | 440          | 440          | 440          | 440          | 440          | 440          | 440          |
| Box width  | mm    | 370          | 370          | 370          | 370          | 370          | 370          | 370          | 370          | 370          |
| Box depth  | mm    | 650          | 530          | 650          | 650          | 650          | 650          | 650          | 530          | 650          |
| Shipping weight  | kg    | 22,6         | 20,7         | 22,4         | 24,4         | 22,8         | 25,4         | 23,1         | 20,7         | 22,4         |

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**SHARP 100 BATTERY CHARGER**

STATED DATA ACCORDING TO MICROPOWER STANDARD

| VARIABLE   | UNIT  |              |              |              |              |              |              |              |              |              |  |
|--|-------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|
| Part number  | -     | SS3523       | SR3521       | SS3524       | SS3526       | SS3563       | SS3566       | SS4423       | SR4421       | SS4424       |  |
| Model  | -     | SHARP 100    | SHARP 100    | SHARP 100    | SHARP 100    | SHARP 100    | SHARP 100    | SHARP 100    | SHARP 100    | SHARP 100    |  |
| Type   | -     | 36V/150A     | 36V/150A     | 36V/150A     | 36V/150A     | 36V/170A     | 36V/170A     | 48V/100A     | 48V/100A     | 48V/100A     |  |
| Output voltage   | V     | 36           | 36           | 36           | 36           | 36           | 36           | 48           | 48           | 48           |  |
| Output current (at 2,4 Vpc)  | A     | 150          | 150          | 150          | 150          | 170          | 170          | 100          | 100          | 100          |  |
| <b>MAINS DATA</b>  |       |              |              |              |              |              |              |              |              |              |  |
| Mains phase  | -     | 3 Phase      | 3 Phase      | 3 Phase      | 3 Phase      | 3 Phase      | 3 Phase      | 3 Phase      | 3 Phase      | 3 Phase      |  |
| Mains voltage supply   | V     | 208-240      | 380-415      | 440-440      | 480-480      | 208-240      | 480-480      | 208-240      | 380-415      | 440-440      |  |
| Mains current (at min rated mains V)   | A     | 21,1         | 11,4         | 9,9          | 9,0          | 23,9         | 10,3         | 18,5         | 10,0         | 8,6          |  |
| Mains current (at max rated mains V)   | A     | 18,3         | 10,5         | -            | -            | 20,7         | -            | 16,0         | 9,1          | -            |  |
| Max mains fuse   | A     | 32           | 16           | 16           | 16           | 32           | 16           | 32           | 16           | 16           |  |
| Mains cable dimensions   | mm2   | 4x4          | 4x2,5        | 4x1,5        | 4xAWG14      | 4x4          | 4xAWG14      | 4x4          | 4x1,5        | 4x1,5        |  |
| Mains cable length   | m     | 3            | 3            | 3            | 3            | 3            | 3            | 3            | 3            | 3            |  |
| Mains connector (included)   | -     | CEE32 (Blue) | CEE16 (Red)  | CEE16 (Red)  | NEMA L16-30P | CEE32 (Blue) | NEMA L16-30P | CEE32 (Blue) | CEE16 (Red)  | CEE16 (Red)  |  |
| <b>BATTERY CONNECTION</b>  |       |              |              |              |              |              |              |              |              |              |  |
| Battery cable  | mm2   | 2x50         | 2x50         | 2x50         | 2xAWG1/0     | 2x70         | 2xAWG1/0     | 2x35         | 2x35         | 2x35         |  |
| Battery cable length   | m     | 3            | 3            | 3            | 3            | 3            | 3            | 3            | 3            | 3            |  |
| Battery connector (not included)   | -     | User defined | User defined | User defined | User defined | User defined | User defined | User defined | User defined | User defined |  |
| <b>ELECTRIC DATA</b>   |       |              |              |              |              |              |              |              |              |              |  |
| Standby power consumption  | W     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |  |
| Power consumption  | W     | 7220         | 7141         | 7141         | 7141         | 8166         | 8108         | 6315         | 6247         | 6247         |  |
| Apparent power consumption   | VA    | 7600         | 7517         | 7517         | 7517         | 8595         | 8535         | 6648         | 6576         | 6576         |  |
| Power factor   | -     | 0,95         | 0,95         | 0,95         | 0,95         | 0,95         | 0,95         | 0,95         | 0,95         | 0,95         |  |
| Inrush current   | A     | Negligible   | Negligible   | Negligible   | Negligible   | Negligible   | Negligible   | Negligible   | Negligible   | Negligible   |  |
| Output ripple  | % RMS | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           |  |
| Efficiency (at rated power and no cables)                                      | %     | 91           | 92           | 92           | 92           | 91           | 92           | 92           | 93           | 93           |  |
| <b>PROPERTIES</b>  |       |              |              |              |              |              |              |              |              |              |  |
| Ingress protection   | IP    | IP20         | IP20         | IP20         | IP20         | IP20         | IP20         | IP20         | IP20         | IP20         |  |
| Ambient temperature range (at full capacity)                                   | °C    | -5 to +40    | -5 to +40    | -5 to +40    | -5 to +40    | -5 to +40    | -5 to +40    | -5 to +40    | -5 to +40    | -5 to +40    |  |
| Ambient max temp (with reduced capacity)                                       | °C    | 50           | 50           | 50           | 50           | 50           | 50           | 50           | 50           | 50           |  |
| Cooling  | -     | Fan          | Fan          | Fan          | Fan          | Fan          | Fan          | Fan          | Fan          | Fan          |  |
| Short circuit protection   | -     | Yes          | No           | Yes          | Yes          | Yes          | Yes          | Yes          | No           | Yes          |  |
| Wrong polarity protection  | -     | Fuse         | Fuse         | Fuse         | Fuse         | Fuse         | Fuse         | Fuse         | Fuse         | Fuse         |  |
| Cabinet type   | -     | S18          | S17          | S18          | S18          | S18          | S18          | S18          | S17          | S18          |  |
| Certifications   | -     | CE           | CE           | CE           | UL           | CE           | UL           | CE           | CE           | CE           |  |
| HMI  | -     | LED          | LED          | LED          | LED          | LED          | LED          | LED          | LED          | LED          |  |
| HMI Language   | -     | -            | -            | -            | -            | -            | -            | -            | -            | -            |  |
| Radio communication  | -     | No           | No           | No           | No           | No           | No           | No           | No           | No           |  |
| Charging curve set (specification tab)   | -     | See website  | See website  | See website  | See website  | See website  | See website  | See website  | See website  | See website  |  |
| I/O-cards  | -     | No           | No           | No           | No           | No           | No           | No           | No           | No           |  |
| Accessories (accessories tab)  | -     | See website  | See website  | See website  | See website  | See website  | See website  | See website  | See website  | See website  |  |
| <b>CHARGING TIMES (Charging Curve: LK10-18 with Chemical Acid Circulation)</b> |       |              |              |              |              |              |              |              |              |              |  |
| 6 h  | Ah C5 | 861          | 861          | 861          | 861          | 976          | 976          | 574          | 574          | 574          |  |
| 8 h  | Ah C5 | 1250         | 1250         | 1250         | 1250         | 1415         | 1415         | 833          | 833          | 833          |  |
| 10 h   | Ah C5 | 1668         | 1668         | 1668         | 1668         | 1888         | 1888         | 1112         | 1112         | 1112         |  |
| 12 h   | Ah C5 | 2002         | 2002         | 2002         | 2002         | 2266         | 2266         | 1334         | 1334         | 1334         |  |
| <b>CHARGER DIMENSIONS</b>  |       |              |              |              |              |              |              |              |              |              |  |
| Charger weight excl. cables  | kg    | 16,1         | 14,3         | 16,1         | 16,1         | 16,1         | 16,1         | 16,1         | 14,3         | 16,1         |  |
| Charger weight incl. cables  | kg    | 20,7         | 18,4         | 20,0         | 20,4         | 22,4         | 20,4         | 19,8         | 17,3         | 19,2         |  |
| Dimensions   | -     | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  |  |
| Fixing center points   | -     | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  |  |
| Min spacing required   | mm    | 300          | 300          | 300          | 300          | 300          | 300          | 300          | 300          | 300          |  |
| <b>SHIPPING DIMENSIONS</b>   |       |              |              |              |              |              |              |              |              |              |  |
| Box height   | mm    | 440          | 440          | 440          | 440          | 440          | 440          | 440          | 440          | 440          |  |
| Box width  | mm    | 370          | 370          | 370          | 370          | 370          | 370          | 370          | 370          | 370          |  |
| Box depth  | mm    | 650          | 530          | 650          | 650          | 650          | 650          | 650          | 530          | 650          |  |
| Shipping weight  | kg    | 23,1         | 20,9         | 22,4         | 22,8         | 24,8         | 22,8         | 22,2         | 19,9         | 21,6         |  |

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**SHARP 100 BATTERY CHARGER**

STATED DATA ACCORDING TO MICROPOWER STANDARD

| VARIABLE   | UNIT  |              |              |              |              |              |              |              |              |              |             |
|--|-------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|
| Part number  | -     | SS4426       | SS4483       | SR4481       | SS4484       | SS4486       | SR4551       | SS4554       | ST4556       | SR6301       |             |
| Model  | -     | SHARP 100    | SHARP 100    | SHARP 100    | SHARP 100    | SHARP 100    | SHARP 100    | SHARP 100    | SHARP 100    | SHARP 100    |             |
| Type   | -     | 48V/100A     | 48V/130A     | 48V/130A     | 48V/130A     | 48V/130A     | 48V/165A     | 48V/165A     | 48V/165A     | 80V/40A      |             |
| Output voltage   | V     | 48           | 48           | 48           | 48           | 48           | 48           | 48           | 48           | 80           |             |
| Output current (at 2,4 Vpc)  | A     | 100          | 130          | 130          | 130          | 130          | 165          | 165          | 165          | 40           |             |
| <b>MAINS DATA</b>  |       |              |              |              |              |              |              |              |              |              |             |
| Mains phase  | -     | 3 Phase      | 3 Phase      | 3 Phase      | 3 Phase      | 3 Phase      | 3 Phase      | 3 Phase      | 3 Phase      | 3 Phase      |             |
| Mains voltage supply   | V     | 480-480      | 208-240      | 380-415      | 440-440      | 480-480      | 380-415      | 440-440      | 480-480      | 380-415      |             |
| Mains current (at min rated mains V)   | A     | 7,9          | 24,0         | 13,0         | 11,2         | 10,3         | 16,5         | 14,3         | 13,1         | 6,6          |             |
| Mains current (at max rated mains V)   | A     | -            | 20,8         | 11,9         | -            | -            | 15,1         | -            | -            | 6,0          |             |
| Max mains fuse   | A     | 16           | 32           | 16           | 16           | 16           | 32           | 16           | 16           | 16           |             |
| Mains cable dimensions   | mm2   | 4xAWG14      | 4x4          | 4x2,5        | 4x2,5        | 4xAWG14      | 4x2,5        | 4x2,5        | 4xAWG14      | 4x1,5        |             |
| Mains cable length   | m     | 3            | 3            | 3            | 3            | 3            | 3            | 3            | 3            | 3            |             |
| Mains connector (included)   | -     | NEMA L16-30P | CEE32 (Blue) | CEE16 (Red)  | CEE16 (Red)  | NEMA L16-30P | CEE16 (Red)  | CEE16 (Red)  | CEE16 (Red)  | NEMA L16-30P | CEE16 (Red) |
| <b>BATTERY CONNECTION</b>  |       |              |              |              |              |              |              |              |              |              |             |
| Battery cable  | mm2   | 2xAWG2       | 2x50         | 2x50         | 2x50         | 2xAWG1/0     | 2x50         | 2x50         | 2xAWG1/0     | 2x10         |             |
| Battery cable length   | m     | 3            | 3            | 3            | 3            | 3            | 3            | 3            | 3            | 3            |             |
| Battery connector (not included)   | -     | User defined | User defined | User defined | User defined | User defined | User defined | User defined | User defined | User defined |             |
| <b>ELECTRIC DATA</b>   |       |              |              |              |              |              |              |              |              |              |             |
| Standby power consumption  | W     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |             |
| Power consumption  | W     | 6247         | 8213         | 8124         | 8124         | 8124         | 10336        | 10336        | 10336        | 4113         |             |
| Apparent power consumption   | VA    | 6576         | 8645         | 8552         | 8552         | 8552         | 10880        | 10880        | 10880        | 4330         |             |
| Power factor   | -     | 0,95         | 0,95         | 0,95         | 0,95         | 0,95         | 0,95         | 0,95         | 0,95         | 0,95         |             |
| Inrush current   | A     | Negligible   | Negligible   | Negligible   | Negligible   | Negligible   | Negligible   | Negligible   | Negligible   | Negligible   |             |
| Output ripple  | % RMS | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           |             |
| Efficiency (at rated power and no cables)                                      | %     | 93           | 92           | 93           | 93           | 93           | 93           | 93           | 93           | 94           |             |
| <b>PROPERTIES</b>  |       |              |              |              |              |              |              |              |              |              |             |
| Ingress protection   | IP    | IP20         | IP20         | IP20         | IP20         | IP20         | IP20         | IP20         | IP20         | IP20         |             |
| Ambient temperature range (at full capacity)                                   | °C    | -5 to +40    | -5 to +40    | -5 to +40    | -5 to +40    | -5 to +40    | -5 to +40    | -5 to +40    | -5 to +40    | -5 to +40    |             |
| Ambient max temp (with reduced capacity)                                       | °C    | 50           | 50           | 50           | 50           | 50           | 50           | 50           | 50           | 50           |             |
| Cooling  | -     | Fan          | Fan          | Fan          | Fan          | Fan          | Fan          | Fan          | Fan          | Fan          |             |
| Short circuit protection   | -     | Yes          | Yes          | No           | Yes          | Yes          | No           | Yes          | Yes          | No           |             |
| Wrong polarity protection  | -     | Fuse         | Fuse         | Fuse         | Fuse         | Fuse         | Fuse         | Fuse         | Fuse         | Fuse         |             |
| Cabinet type   | -     | S18          | S18          | S17          | S18          | S18          | S17          | S18          | S19          | S17          |             |
| Certifications   | -     | UL           | CE           | CE           | CE           | UL           | CE           | CE           | UL           | CE           |             |
| HMI  | -     | LED          | LED          | LED          | LED          | LED          | LED          | LED          | LED          | LED          |             |
| HMI Language   | -     | -            | -            | -            | -            | -            | -            | -            | -            | -            |             |
| Radio communication  | -     | No           | No           | No           | No           | No           | No           | No           | No           | No           |             |
| Charging curve set (specification tab)   | -     | See website  | See website  | See website  | See website  | See website  | See website  | See website  | See website  | See website  |             |
| I/O-cards  | -     | No           | No           | No           | No           | No           | No           | No           | No           | No           |             |
| Accessories (accessories tab)  | -     | See website  | See website  | See website  | See website  | See website  | See website  | See website  | See website  | See website  |             |
| <b>CHARGING TIMES (Charging Curve: LK10-18 with Chemical Acid Circulation)</b> |       |              |              |              |              |              |              |              |              |              |             |
| 6 h  | Ah C5 | 574          | 746          | 746          | 746          | 746          | 947          | 947          | 947          | 230          |             |
| 8 h  | Ah C5 | 833          | 1083         | 1083         | 1083         | 1083         | 1213         | 1213         | 1213         | 333          |             |
| 10 h   | Ah C5 | 1112         | 1446         | 1446         | 1446         | 1446         | 1834         | 1834         | 1834         | 444          |             |
| 12 h   | Ah C5 | 1334         | 1735         | 1735         | 1735         | 1735         | 1943         | 1943         | 1943         | 533          |             |
| <b>CHARGER DIMENSIONS</b>  |       |              |              |              |              |              |              |              |              |              |             |
| Charger weight excl. cables  | kg    | 16,1         | 16,1         | 14,3         | 16,1         | 16,1         | 14,3         | 16,1         | 18,6         | 14,3         |             |
| Charger weight incl. cables  | kg    | 19,3         | 20,7         | 18,4         | 20,2         | 20,4         | 18,4         | 20,2         | 22,8         | 15,8         |             |
| Dimensions   | -     | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  |             |
| Fixing center points   | -     | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  |             |
| Min spacing required   | mm    | 300          | 300          | 300          | 300          | 300          | 300          | 300          | 300          | 300          |             |
| <b>SHIPPING DIMENSIONS</b>   |       |              |              |              |              |              |              |              |              |              |             |
| Box height   | mm    | 440          | 440          | 440          | 440          | 440          | 440          | 440          | 440 *        | 440          |             |
| Box width  | mm    | 370          | 370          | 370          | 370          | 370          | 370          | 370          | 370 *        | 370          |             |
| Box depth  | mm    | 650          | 650          | 530          | 650          | 650          | 530          | 650          | 560 *        | 530          |             |
| Shipping weight  | kg    | 21,7         | 23,1         | 20,9         | 22,6         | 22,8         | 20,9         | 22,6         | 25,6         | 18,3         |             |

\* Bulk or box (size to be decided)

TECHNICAL DATA

**SHARP 100 BATTERY CHARGER**

STATED DATA ACCORDING TO MICROPOWER STANDARD

| VARIABLE   | UNIT  |              |              |              |              |              |              |              |              |              |  |
|--|-------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|
| Part number  | -     | S56304       | S56343       | SR6341       | S56344       | S56383       | SR6381       | S56384       | S56386       | SR6421       |  |
| Model  | -     | SHARP 100    | SHARP 100    | SHARP 100    | SHARP 100    | SHARP 100    | SHARP 100    | SHARP 100    | SHARP 100    | SHARP 100    |  |
| Type   | -     | 80V/40A      | 80V/60A      | 80V/60A      | 80V/60A      | 80V/80A      | 80V/80A      | 80V/80A      | 80V/80A      | 80V/100A     |  |
| Output voltage   | V     | 80           | 80           | 80           | 80           | 80           | 80           | 80           | 80           | 80           |  |
| Output current (at 2,4 V <sub>pc</sub> )                                       | A     | 40           | 60           | 60           | 60           | 80           | 80           | 80           | 80           | 100          |  |
| <b>MAINS DATA</b>  |       |              |              |              |              |              |              |              |              |              |  |
| Mains phase  | -     | 3 Phase      | 3 Phase      | 3 Phase      | 3 Phase      | 3 Phase      | 3 Phase      | 3 Phase      | 3 Phase      | 3 Phase      |  |
| Mains voltage supply   | V     | 440-440      | 208-240      | 380-415      | 440-440      | 208-240      | 380-415      | 440-440      | 480-480      | 380-415      |  |
| Mains current (at min rated mains V)   | A     | 5,7          | 18,2         | 9,9          | 8,5          | 24,3         | 13,1         | 11,4         | 10,4         | 16,4         |  |
| Mains current (at max rated mains V)   | A     | -            | 15,8         | 9,0          | -            | 21,0         | 12,0         | -            | -            | 15,0         |  |
| Max mains fuse   | A     | 16           | 32           | 16           | 16           | 32           | 16           | 16           | 16           | 32           |  |
| Mains cable dimensions   | mm2   | 4x1,5        | 4x4          | 4x1,5        | 4x1,5        | 4x4          | 4x2,5        | 4x2,5        | 4xAWG14      | 4x2,5        |  |
| Mains cable length   | m     | 3            | 3            | 3            | 3            | 3            | 3            | 3            | 3            | 3            |  |
| Mains connector (included)   | -     | CEE16 (Red)  | CEE32 (Blue) | CEE16 (Red)  | CEE16 (Red)  | CEE32 (Blue) | CEE16 (Red)  | CEE16 (Red)  | NEMA L16-30P | CEE16 (Red)  |  |
| <b>BATTERY CONNECTION</b>  |       |              |              |              |              |              |              |              |              |              |  |
| Battery cable  | mm2   | 2x10         | 2x16         | 2x16         | 2x16         | 2x25         | 2x25         | 2x25         | 2xAWG4       | 2x35         |  |
| Battery cable length   | m     | 3            | 3            | 3            | 3            | 3            | 3            | 3            | 3            | 3            |  |
| Battery connector (not included)   | -     | User defined | User defined | User defined | User defined | User defined | User defined | User defined | User defined | User defined |  |
| <b>ELECTRIC DATA</b>   |       |              |              |              |              |              |              |              |              |              |  |
| Standby power consumption  | W     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |  |
| Power consumption  | W     | 4113         | 6232         | 6166         | 6166         | 8306         | 8218         | 8218         | 8218         | 10266        |  |
| Apparent power consumption   | VA    | 4330         | 6560         | 6490         | 6490         | 8743         | 8650         | 8650         | 8650         | 10806        |  |
| Power factor   | -     | 0,95         | 0,95         | 0,95         | 0,95         | 0,95         | 0,95         | 0,95         | 0,95         | 0,95         |  |
| Inrush current   | A     | Negligible   | Negligible   | Negligible   | Negligible   | Negligible   | Negligible   | Negligible   | Negligible   | Negligible   |  |
| Output ripple  | % RMS | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           |  |
| Efficiency (at rated power and no cables)                                      | %     | 94           | 93           | 94           | 94           | 93           | 94           | 94           | 94           | 94           |  |
| <b>PROPERTIES</b>  |       |              |              |              |              |              |              |              |              |              |  |
| Ingress protection   | IP    | IP20         | IP20         | IP20         | IP20         | IP20         | IP20         | IP20         | IP20         | IP20         |  |
| Ambient temperature range (at full capacity)                                   | °C    | -5 to +40    | -5 to +40    | -5 to +40    | -5 to +40    | -5 to +40    | -5 to +40    | -5 to +40    | -5 to +40    | -5 to +40    |  |
| Ambient max temp (with reduced capacity)                                       | °C    | 50           | 50           | 50           | 50           | 50           | 50           | 50           | 50           | 50           |  |
| Cooling  | -     | Fan          | Fan          | Fan          | Fan          | Fan          | Fan          | Fan          | Fan          | Fan          |  |
| Short circuit protection   | -     | Yes          | Yes          | No           | Yes          | Yes          | No           | Yes          | Yes          | No           |  |
| Wrong polarity protection  | -     | Fuse         | Fuse         | Fuse         | Fuse         | Fuse         | Fuse         | Fuse         | Fuse         | Fuse         |  |
| Cabinet type   | -     | S18          | S18          | S17          | S18          | S18          | S17          | S18          | S18          | S17          |  |
| Certifications   | -     | CE           | CE           | CE           | CE           | CE           | CE           | CE           | UL           | CE           |  |
| HMI  | -     | LED          | LED          | LED          | LED          | LED          | LED          | LED          | LED          | LED          |  |
| HMI Language   | -     | -            | -            | -            | -            | -            | -            | -            | -            | -            |  |
| Radio communication  | -     | No           | No           | No           | No           | No           | No           | No           | No           | No           |  |
| Charging curve set (specification tab)   | -     | See website  | See website  | See website  | See website  | See website  | See website  | See website  | See website  | See website  |  |
| I/O-cards  | -     | No           | No           | No           | No           | No           | No           | No           | No           | No           |  |
| Accessories (accessories tab)  | -     | See website  | See website  | See website  | See website  | See website  | See website  | See website  | See website  | See website  |  |
| <b>CHARGING TIMES (Charging Curve: LK10-18 with Chemical Acid Circulation)</b> |       |              |              |              |              |              |              |              |              |              |  |
| 6 h  | Ah C5 | 230          | 344          | 344          | 344          | 459          | 459          | 459          | 459          | 574          |  |
| 8 h  | Ah C5 | 333          | 500          | 500          | 500          | 665          | 665          | 665          | 665          | 833          |  |
| 10 h   | Ah C5 | 444          | 667          | 667          | 667          | 887          | 887          | 887          | 887          | 1112         |  |
| 12 h   | Ah C5 | 533          | 800          | 800          | 800          | 1064         | 1064         | 1064         | 1064         | 1334         |  |
| <b>CHARGER DIMENSIONS</b>  |       |              |              |              |              |              |              |              |              |              |  |
| Charger weight excl. cables  | kg    | 16,1         | 16,1         | 14,3         | 16,1         | 16,1         | 14,3         | 16,1         | 16,1         | 14,3         |  |
| Charger weight incl. cables  | kg    | 17,6         | 18,6         | 16,1         | 17,9         | 19,2         | 17,0         | 18,8         | 18,4         | 17,6         |  |
| Dimensions   | -     | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  |  |
| Fixing center points   | -     | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  | See drawing  |  |
| Min spacing required   | mm    | 300          | 300          | 300          | 300          | 300          | 300          | 300          | 300          | 300          |  |
| <b>SHIPPING DIMENSIONS</b>   |       |              |              |              |              |              |              |              |              |              |  |
| Box height   | mm    | 440          | 440          | 440          | 440          | 440          | 440          | 440          | 440          | 440          |  |
| Box width  | mm    | 370          | 370          | 370          | 370          | 370          | 370          | 370          | 370          | 370          |  |
| Box depth  | mm    | 650          | 650          | 530          | 650          | 650          | 530          | 650          | 650          | 530          |  |
| Shipping weight  | kg    | 20,0         | 21,0         | 18,7         | 20,3         | 21,6         | 19,5         | 21,2         | 20,8         | 20,1         |  |

TECHNICAL DATA

**SHARP 100 BATTERY CHARGER**

STATED DATA ACCORDING TO MICROPOWER STANDARD

| VARIABLE   | UNIT  |              |              |
|--|-------|--------------|--------------|
| Part number  | -     | S56424       | ST6426       |
| Model  | -     | SHARP 100    | SHARP 100    |
| Type   | -     | 80V/100A     | 80V/100A     |
| Output voltage   | V     | 80           | 80           |
| Output current (at 2,4 V <sub>pc</sub> )                                       | A     | 100          | 100          |
| <b>MAINS DATA</b>  |       |              |              |
| Mains phase  | -     | 3 Phase      | 3 Phase      |
| Mains voltage supply   | V     | 440-440      | 480-480      |
| Mains current (at min rated mains V)   | A     | 14,2         | 13,0         |
| Mains current (at max rated mains V)   | A     | -            | -            |
| Max mains fuse   | A     | 16           | 16           |
| Mains cable dimensions   | mm2   | 4x2,5        | 4xAWG14      |
| Mains cable length   | m     | 3            | 3            |
| Mains connector (included)   | -     | CEE16 (Red)  | NEMA L16-30P |
| <b>BATTERY CONNECTION</b>  |       |              |              |
| Battery cable  | mm2   | 2x35         | 2xAWG2       |
| Battery cable length   | m     | 3            | 3            |
| Battery connector (not included)   | -     | User defined | User defined |
| <b>ELECTRIC DATA</b>   |       |              |              |
| Standby power consumption  | W     | <10          | <10          |
| Power consumption  | W     | 10266        | 10266        |
| Apparent power consumption   | VA    | 10806        | 10806        |
| Power factor   | -     | 0,95         | 0,95         |
| Inrush current   | A     | Negligible   | Negligible   |
| Output ripple  | % RMS | <1           | <1           |
| Efficiency (at rated power and no cables)                                      | %     | 94           | 94           |
| <b>PROPERTIES</b>  |       |              |              |
| Ingress protection   | IP    | IP20         | IP20         |
| Ambient temperature range (at full capacity)                                   | °C    | -5 to +40    | -5 to +40    |
| Ambient max temp (with reduced capacity)                                       | °C    | 50           | 50           |
| Cooling  | -     | Fan          | Fan          |
| Short circuit protection   | -     | Yes          | Yes          |
| Wrong polarity protection  | -     | Fuse         | Fuse         |
| Cabinet type   | -     | S18          | S19          |
| Certifications   | -     | CE           | UL           |
| HMI  | -     | LED          | LED          |
| HMI Language   | -     | -            | -            |
| Radio communication  | -     | No           | No           |
| Charging curve set (specification tab)   | -     | See website  | See website  |
| I/O-cards  | -     | No           | No           |
| Accessories (accessories tab)  | -     | See website  | See website  |
| <b>CHARGING TIMES (Charging Curve: LK10-18 with Chemical Acid Circulation)</b> |       |              |              |
| 6 h  | Ah C5 | 574          | 574          |
| 8 h  | Ah C5 | 833          | 833          |
| 10 h   | Ah C5 | 1112         | 1112         |
| 12 h   | Ah C5 | 1334         | 1334         |
| <b>CHARGER DIMENSIONS</b>  |       |              |              |
| Charger weight excl. cables  | kg    | 16,1         | 18,6         |
| Charger weight incl. cables  | kg    | 19,4         | 21,7         |
| Dimensions   | -     | See drawing  | See drawing  |
| Fixing center points   | -     | See drawing  | See drawing  |
| Min spacing required   | mm    | 300          | 300          |
| <b>SHIPPING DIMENSIONS</b>   |       |              |              |
| Box height   | mm    | 440          | 440 *        |
| Box width  | mm    | 370          | 370 *        |
| Box depth  | mm    | 650          | 560 *        |
| Shipping weight  | kg    | 21,8         | 24,5         |

\* Bulk or box (size to be decided)