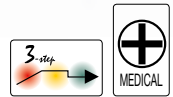


- 3-step charge control with current detection
- Input voltage 198-264 VAC
- Wake up and low current start-up of deeply discharged batteries
- Error indication for reverse polarity, short circuit, charging of wrong (lower Voltage) battery pack, defect battery and safety timer run-out
- Mounting bracket included
- Approvals:
 - Medically certified
 - Safety: EN 60601-1 ed. 3.1
 - EMC: EN 60601-1-2 ed. 4
 - UL approved



For updates: see www.mascot.no

TECHNICAL SPECIFICATIONS



GENERAL INPUT/OUTPUT

| | |
|--|---|
| Input voltage: | 198-264 VAC |
| Line Frequency: | 47 – 50Hz |
| Switch frequency, approx.: | 65 kHz |
| Leakage current from batt. with mains switched off: | <170µA@29.2V |
| Temperature range | |
| • Operating: | -25 °C - +40 °C |
| • Storage: | -25 °C - +65 °C |
| Derating: | Approx. - 30 % at 40°C |
| Ripple: | < 100 mV p-p |
| Dimensions (LxWxH): | 210 × 113 × 53 mm |
| Weight: | With mains cable 1400g With IEC60320 1150g |

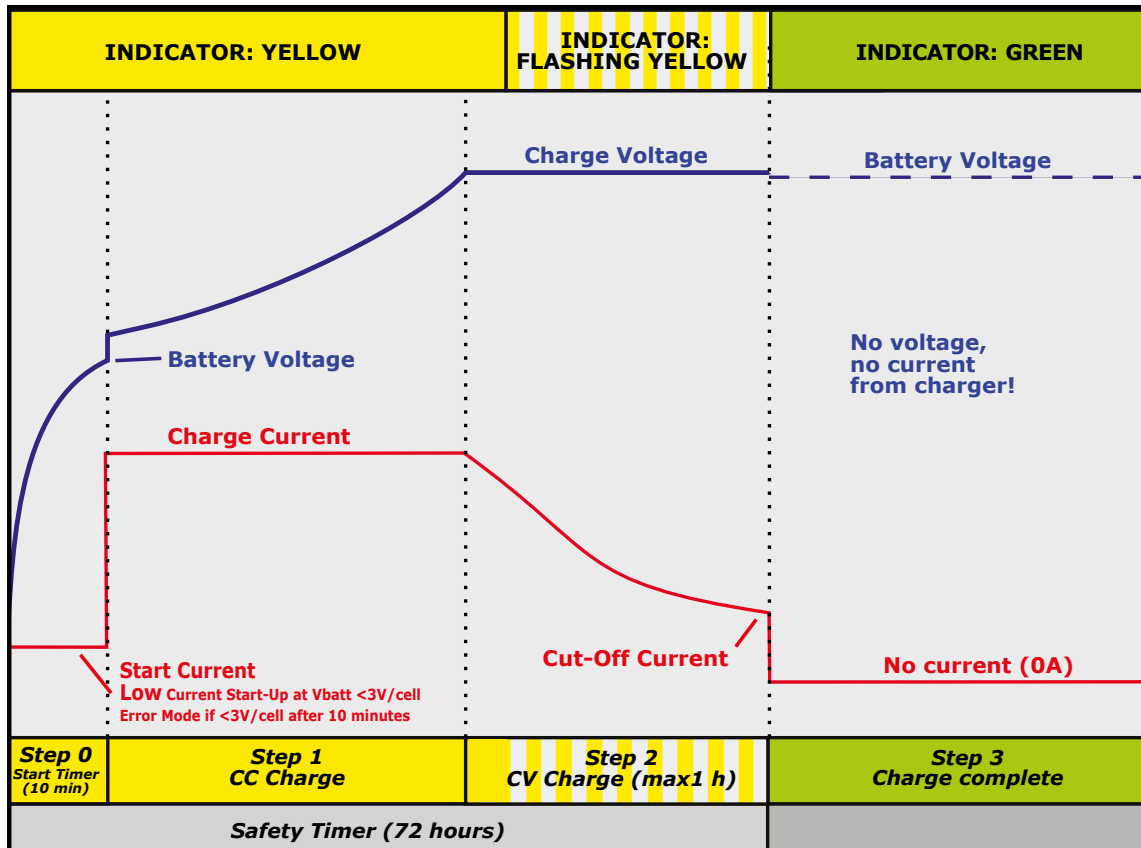
SAFETY PROTECTION EMC

| | |
|-------------------------------|--|
| Protection: | Short circuit proof and protected against reversed polarity and thermal run-off. Prevents sparking. Charge timer: (step 2): 1h Safety timer: 72h |
| Insulation class: | Class II (Double insulated) |
| Insulation voltage | |
| Primary – secondary: | 4000VAC / 5700VDC |
| Electrical safety std: | EN/IEC/ANSI 60601 |
| EMC standards | EN 60601-1-2: 2015 (Edition 4) |
| Input terminal: | 2-pin IEC 60320 or fixed mains cable |
| Output terminals: | Cord with open ends |
| IP-code: | IP44 (IP41 with 2-pin IEC 60320) |

VERSIONS

| Cells | Max output power (W) | Step 0 < 10min (yellow) | Step 0 > 10min (Red: 4 blinks) | Step 1 (yellow) | Step 2 (Flash yellow) | Step 3 (green) | Restart |
|-------|----------------------|---|--------------------------------|-------------------------------|----------------------------|---|-------------|
| 3 | 252W | Low Current start-up for deeply discharged batt. CC 1A±0.4A when batt volt < 9V | 0A/0V | Charge Current 20A +0.2/-0.3A | Charge Voltage 12.6V ±0.2V | Charge term when current is: < 1A or max. 2 hr. | 12.3V ±0.1V |
| 4 | 294W | CC 1A±0.2A when batt volt < 12V | | 17.5A +0.2/-0.3A | 16.8V ±0.2V | < 1A or max. 2 hr. | 16.4V ±0.1V |
| 7 | 294W | CC 0.8A±0.4A when batt volt < 21V | | 10A +0/-0.3A | 29.4V ±0.2V | < 0.8A or max. 1 hr. | 28.7V ±0.1V |
| 8 | 293W | CC 5A±0.2A when batt volt < 24V | | 8.7A +0.1/-0.3A | 33.6V ±0.2V | < 0.5A or max. 1 hr. | 32.8V ±0.1V |
| 10 | 294W | CC 0.5A±0.1A when batt volt < 30V | | 7A +0/-0.3A | 42.0V ±0.2V | < 0.5A or max. 1 hr. | 41.0V ±0.1V |

Charging characteristics and LED indication *



* an animated video of this charging progress is available on our website

BATTERY NOT CONNECTED INDICATIONS

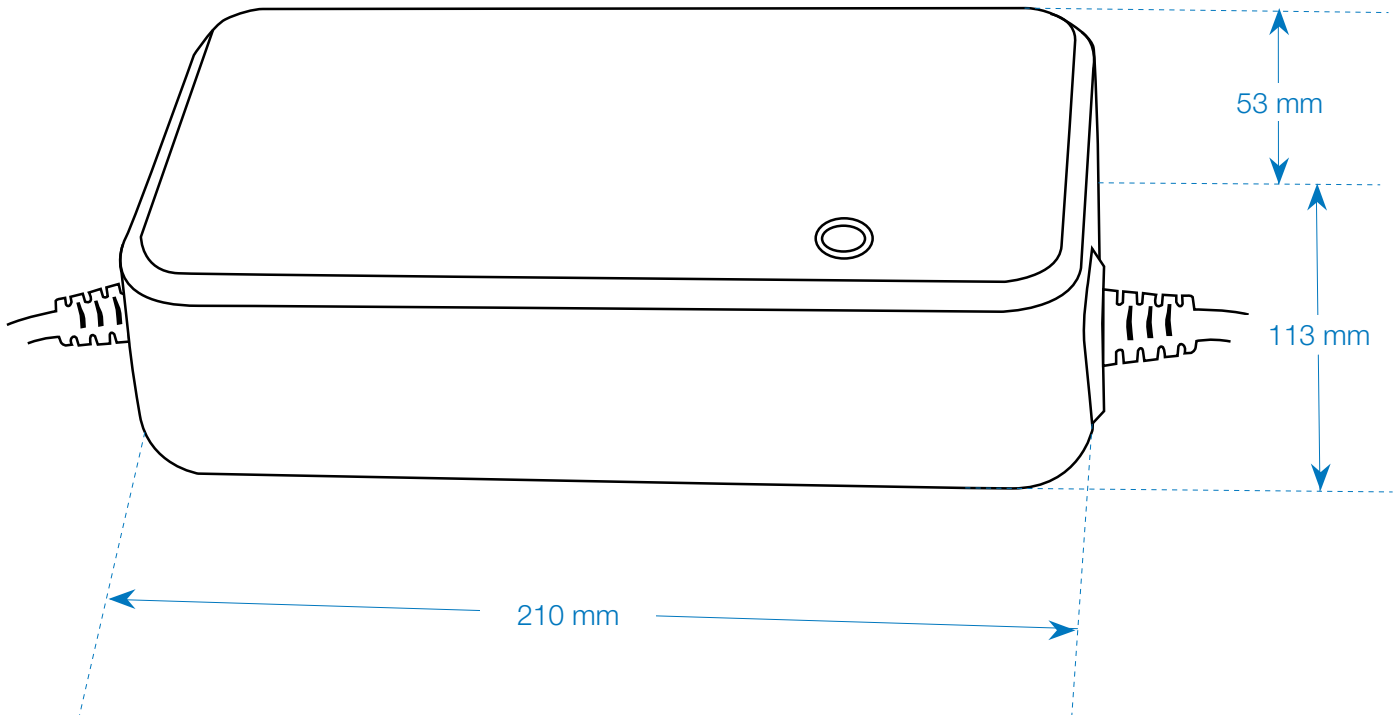
Battery not connected is indicated by FLASHING GREEN. In this mode charger will apply short pulses attempting to wake up deeply discharged batteries.

ERROR INDICATIONS

- 2 red blinks: Battery is connected to charger with wrong polarity!
- 3 red blinks: Charger output is shorted. Check output cable connection!
- 4 red blinks: Battery voltage is low. Check battery status or voltage.
- 5 red blinks: Safety timer has run out. Check battery status or capacity.
- LED off: Battery voltage is too high. Check battery voltage.

WAIT MODE INDICATIONS

- Yellow with 1 red blink: Battery temperature is too low ($< 0^{\circ}C$)
- Yellow with 2 red blink: Battery temperature is too high ($> 45^{\circ}C$)



Mounting bracket, part no. 205800

