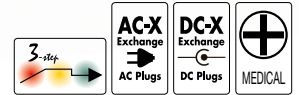


Versions with and without R_{ID}

- Universal input voltage (90-264 VAC)
- 3-step adaptive charge control.
- Charge adapts to battery pack type automatically (RID only)
- NTC input on request: automatic battery temp monitoring and thermal control to prevent charge of cold/warm batteries.
- Wake up and low current start-up of deeply discharged batteries.
- Error indication for reverse polarity, short circuit, charging battery packs with wrong number of cells and safety timer run-out.
- Order plugs and mains cord separately.
- Approvals:
 - Medically certified
 - Safety: EN 60601-1 ed. 3.1 and EN 60601-1-11
 - EMC: EN 60601-1-2 ed. 4
 - UL approved

For updates: see www.mascot.no



TECHNICAL SPECIFICATIONS

GENERAL INPUT/OUTPUT

Input voltage:	90-264 VAC
Line Frequency:	47 – 63Hz
Switch frequency, approx.:	55 kHz
Leakage current from batt. with mains switched off:	≈ 0A
Temperature range	
• Operating:	-25 °C - +40 °C
• Storage:	-25 °C - +85 °C
Ripple:	< 40 mV p-p/<25 mV p-p
Dimensions (LxWxH):	108,5 × 49 × 29 mm
Weight:	150g
Input terminals:	2-pin IEC 60320/C8
Output terminals:	DC conn, battery clips, push-on terminals or open ends
IP-code:	41

SAFETY PROTECTION EMC

Protection:	Protected against reversed polarity and short circuit proof.
NTC input (on request)	0-45°C: normal charge
Insulation class:	Class II
Insulation voltage	
Primary – secondary:	4000VAC / 5700VDC
Electrical safety std:	
• Medical:	EN/IEC/ANSI 60601-1
• Household batt. charger:	EN/IEC 60335-1 and -2-29
• A/V and Comm. tech:	EN/IEC/UL 62368-1
	Replaces IEC 60950-1 and IEC 60065
EMC standards	
• Generic:	EN 61000-6-1 and -3
• Medical:	EN 60601-1-2
• Household:	EN 55014-1 and -2
• Information tech.:	EN 55022 and EN 55024
• Multi media:	EN 55032

VERSIONS WITH R_{ID}*

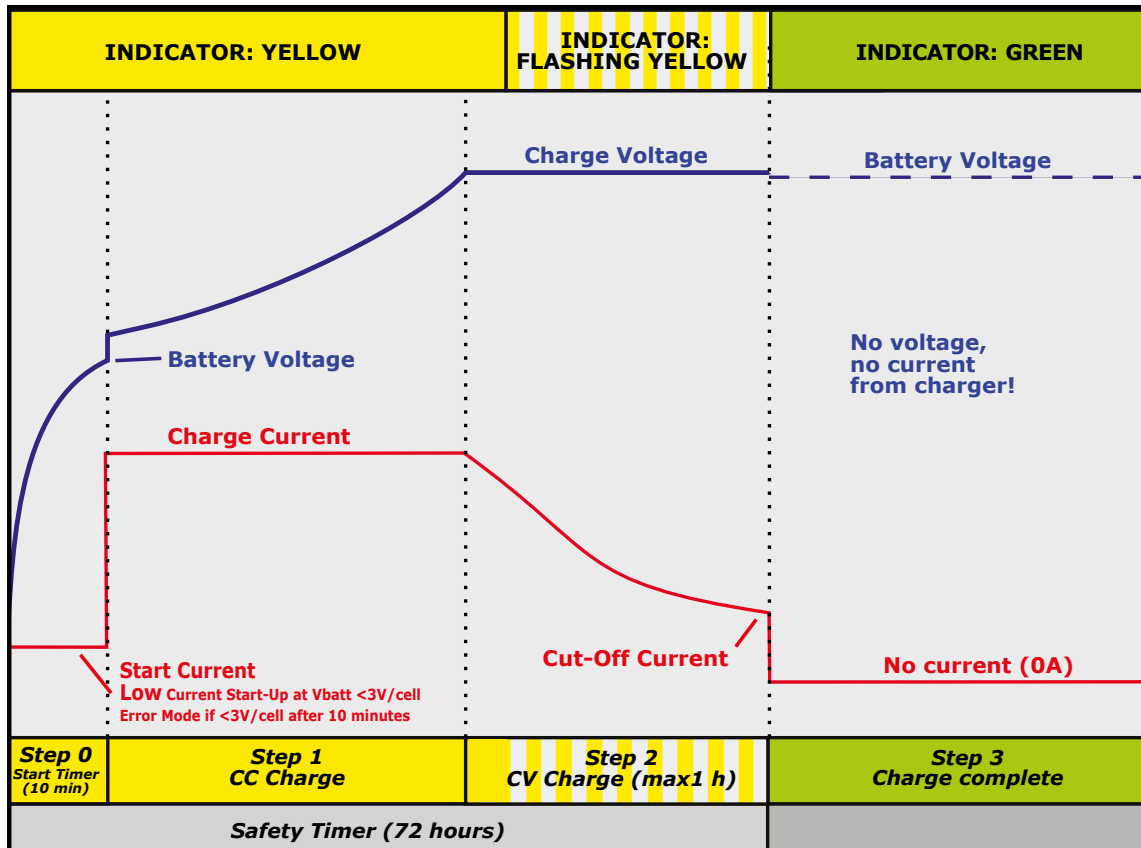
CHARGE CONTROL	R _{ID} ≈	Step 0 (yellow)	Step 1 (yellow)	Step 2 (Flash yellow)	Step 3 (green)	
Max output power (W)	Ω	Low Current start-up for deeply discharged batt.	Charge Current	Charge Voltage	Charge termination when Ich:	Restart when Vbat
1.9W	3k9Ω	CC 40mA ± 10mA when batt. < 3V	0.45A ± 50mA	4.2V ± 0.05V	< 25mA or max. 1 hr.	< 4.1V ± 0.05V
3.6W	10kΩ	CC 55mA ± 15mA when batt. < 3V	0.85A ± 0.1A		< 55mA or max. 1 hr.	
6.3W	24kΩ	CC 125mA ± 30mA when batt. < 3V	1.5A ± 0.15A		< 125mA or max. 1 hr.	
6.3W	52k3Ω	CC 200mA ± 50mA when batt. < 3V	1.5A ± 0.15A		< 260mA or max. 1 hr.	

VERSIONS WITHOUT R_{ID}*

6.3W		CC 100mA ± 25mA when batt. < 3V	1.5A ± 0.1A	4.2V ± 0.05V	< 100mA or max 1 h.	< 4.1V ± 0.05V
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* Custom charge parameters on request, max. 1,5A 6,3W

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

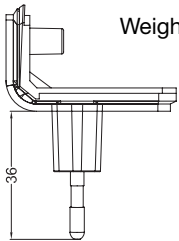
- Yellow with 1 red blink: Battery temperature is too low ($< 0^{\circ}C$)
- Yellow with 2 red blink: Battery temperature is too high ($> 45^{\circ}C$)



Exchangeable AC plugs

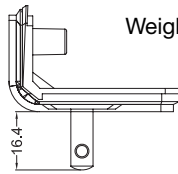
EU plug adapter

Part no. 127000
Weight: 20,9 g



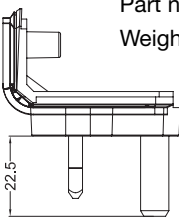
US plug adapter

Part no. 127100
Weight: 13,4 g



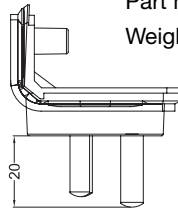
UK plug adapter

Part no. 127200
Weight: 29,2 g



AUS plug adapter

Part no. 127300
Weight: 21,4 g



2-pin IEC 60320 C7 mains cord

1800 mm
EU part no. 131306, UK part no. 131148,
US part no. 131368, AU part no. 013108

