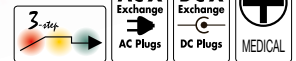


- 3-step charge control with current detection
- Universal input voltage (90-264 VAC)
- Wake up and low current start-up of deeply discharged batteries
- Error indication for reverse polarity, short circuit, charging of lower voltage batteries and safety timer run-out
- DoE (US) compliant
- Approvals:
  - Medically certified EN 60601-1 ed. 3.1
  - UL Approved

 For updates: see [www.mascot.no](http://www.mascot.no)

- 3-trinns ladekontroll med strømdeleksjon
- Universal inngangsspenning (90-264 VAC)
- Vekking og lavstrømoppstart av dypt utladede batterier.
- Feilindikasjon for polvendning, kortslutning, lading av batterer med lavere volt og utløp av sikkerhetstimer
- Møter DoE (US) kravene
- Godkjenninger:
  - Medisinsk sertifisert 60601-1 ed. 3.1
  - UL godkjent

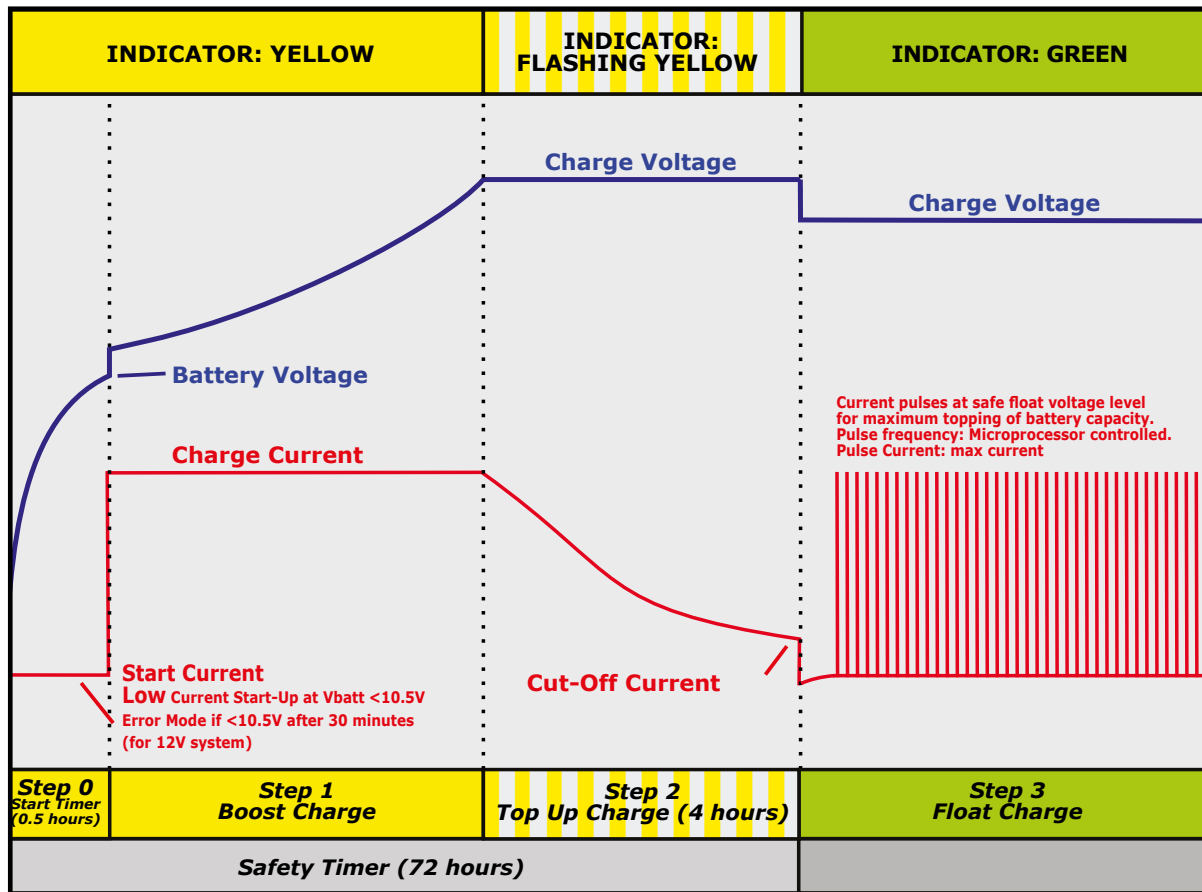
 For oppdat.: se [www.mascot.no](http://www.mascot.no)

**Technical specifications**
**Tekniske data**

Input voltage:	Inngangsspenning:	90-264 VAC
Line Frequency:	Frekvensområde:	47 – 63Hz
Switch frequency, approx.:	Svitsjefrekvens ca.:	56 kHz
Leakage current from battery with mains switched off:	Strømtrekk fra batteri ved frakoblet nett:	<0,3mA @ nominal battery voltage
Temperature range	Temperaturområde	
• Operating:	• Drift:	-25 °C - +40 °C
• Storage:	• Lagring:	-25 °C - +85 °C
Ripple:	Rippel:	< 100 mV p-p
Protection:	Sikring:	Protected against reversed polarity and short circuit proof Polvendings- og kortslutningssikker
Insulation class:	Isolasjonsklasse:	Class II
Insulation voltage	Isolasjonsspenning	
• Primary – secondary:	• Primær - sekundær:	4000VAC / 5700VDC
Electrical safety standard:	Elektrisk sikkerhetsstandard:	EN/IEC 60335-2-29, EN 60601-1-11 EN/IEC/ANSI 60601-1 ed. 3.1
EMC standards	EMC standarder	
• Medical	• Medisinsk	EN 60601-1-2
• Emission	• Emisjon	EN 55014-1, EN 61000-6-3
• Immunity	• Immunitet	EN 55014-2, EN 61000-6-1
Input terminal:	Inngangsterminal:	2-pin IEC 60320 connector C8
Output terminals:	Utgangsterminaler:	DC connector, battery clips, push on terminals or open ends
IP-code:	IP-grad:	41
Dimensions (L×W×H):	Mål (L×B×H):	108,5 × 49 × 29 mm
Weight:	Vekt:	150g

Voltage versions – see next page  
 Spenningsversjoner – se neste side

**Charge control - Ladekontroll (LED indication)**

	Step / Trinn 0 < 30 min	Step / Trinn 0 > 30 min	Step / Trinn 1	Step / Trinn 2	Step / Trinn 3	Float charge	Rec. batt. capacity
	(Yellow/Gul)	(Red=error / Rød=feil)	(Yellow / Gul)	(Blink Gul/Flash Yellow)	(Green / Grønn)	Vedl. lading	Anb. batt.kapasitet
<b>6V</b>	100mA ± 0.25mA (batt volt < 5V)	0A/0V	1.5A ± 5% (batt volt > 5V) (until Vbat = 7.35V)	7.35V ± 0.1V (until I charge <0.4A or >4hr) tapering charge current	6.85V ± 0.1V (until I charge > 1.5A) supply current up to max 1.5A for possible parallel load	Pulsing current at safe float volt. level for max topp. of batt.	7.5-75Ah
<b>12V</b>	100mA ± 0.25mA (batt volt < 10.5V)	0A/0V	1A ± 5% (batt volt > 10.5V) (til Vbat = 14.7V)	14.7V ± 0.1V (until I charge <0.25A or >4hr) tapering charge current	13.7V ± 0.2V (until I charge > 1A) supply current up to max. 1A for possible parallel load		5-50Ah
<b>24V</b>	100mA ± 0.25mA (batt volt < 21V)	0A/0V	0.56A ± 5% (batt volt < 21V) (until Vbat = 29.4V)	29.4V ± 0.1V (until I charge <0.15A or >4hr) tapering charge current	27.4V ± 0.2V (until I charge > 0.56A) supply current up to max 0.56A for possible parallel load		2.8-28Ah
<b>48V</b>	100mA ± 0.25mA (batt volt < 42V)	0A/0V	0.3A ± 5% (batt volt > 42V) (until Vbat = 58.8V)	58.8V ± 0.3V (until I charge <0.1A or >4hr) tapering charge current	54.8V ± 0.3V (until I charge > 0.3A) supply current up to max 0.3A for possible parallel load		1.5-15Ah

**Charging characteristics and LED indication / Ladekarakteristikk og lysdiode (LED) indikasjon (data for 12V version)**

**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**

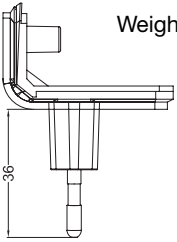
- 2 red blinks: Battery is connected to charger with wrong polarity!
- 3 red blinks: Charger output is shorted. Check output cable connection!
- 4 red blinks: Battery voltage is low. Check battery status or voltage.
- 5 red blinks: Safety timer has run out. Check battery status or capacity.
- LED off: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



## Exchangeable AC plugs for 3743

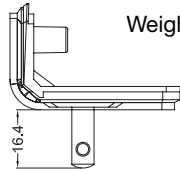
### EU plug adapter

Part no. 127000  
Weight: 20,9 g



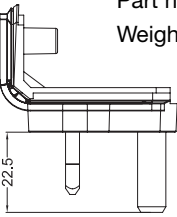
### US plug adapter

Part no. 127100  
Weight: 13,4 g



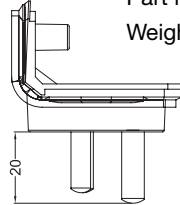
### UK plug adapter

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

