

- 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 batt., safety timer run-out
- Exchangeable AC and DC plugs
- Order plugs and mains cord separately
- ECO-design compliance: DoE and GEC
- 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](http://www.mascot.no)



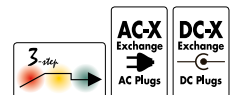
**TECHNICAL SPECIFICATIONS**

**GENERAL INPUT/OUTPUT**

<b>Input voltage:</b>	90-264 VAC, 47 – 63Hz
<b>Switch frequency:</b>	56 kHz
<b>Leakage current from batt. with mains switched off:</b>	<0,3mA @ nom. batt. volt.
<b>Temp. range:</b>	
• <b>Operating:</b>	-25°C ± 40°C
• <b>Storage:</b>	-25°C ± 85°C
<b>Input terminal:</b>	2-pin IEC 60320 conn. C8
<b>Output terminals:</b>	DC conn., batt. clips, push on term. or open ends
<b>IP-code:</b>	41
<b>Dim. (L×W×H):</b>	108,5 × 49 × 29 mm
<b>Weight:</b>	150g

**SAFETY PROTECTION EMC**

<b>Protection:</b>	Against reversed polarity and short circuit
<b>Insulation:</b>	Class II
<b>Insulation voltage:</b>	Primary-secondary 4000VAC-5700VDC
<b>Electrical safety std:</b>	EN/IEC 60335-2-29, EN 60601-1-11, EN/IEC/ANSI 60601-1
<b>EMC standards</b>	
• <b>Medical:</b>	EN 60601-1-2
• <b>Emission:</b>	EN 55014-1, EN 61000-6-3
• <b>Immunity:</b>	EN 55014-2, EN 61000-6-1



**VERSIONS**

	Step 0 < 30 min	Step 0 > 30 min	Step 1	Step 2	Step 3	Float charge	Rec. batt. capacity
	(Yellow)	(Red=error)	(Yellow)	(Flash Yellow)	(Green)		
<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