

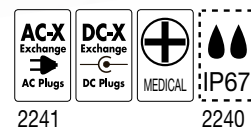
2240-2241 LA Max. 1,3 A

Chargers for lead acid batteries - switch mode

2241 - exchangeable AC plugs



- 3-step charge control with current detection as charge termination
- Universal input voltage (90-264 VAC)
- 2-pin IEC 320 mains connector
- Mounting bracket available
- Order plugs/cord separately
- Exchangeable AC and DC plugs
- Waterproof (IP67) version available
- Custom specifications on request
- 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 12V*

GENERAL INPUT/OUTPUT

Input voltage:	90-264 VAC
Line frequency:	47 – 63Hz
Switch frequency, approx.:	40kHz
Leakage curr. from battery with mains switched off:	≈ 0
Temperature range	
• Operating:	-25°C - +40°C
• Storage:	-25°C - +85°C
Ripple:	< 100 mV p-p
Efficiency	
at 100% load, 230V:	78%
Dimensions (L×W×H):	90 × 45 × 32mm (2240)
Weight:	115g (215g IP67 vers.)
	2241:140g

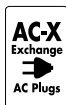
* Some technical specifications may differ for other voltage versions.

SAFETY PROTECTION EMC

Protection:	Protected against reversed polarity and short circuit proof II
Insulation class:	
Insulation voltage	
• Primary – secondary:	4000VAC / 5640VDC
Electrical safety std:	EN 60601-1, EN 60950, EN 60335-2-29
	EMC standards
• Medical:	EN 60601-1-2
• Emission:	EN 61000-6-3
• Immunity:	EN 61000-6-1
Reliability (MIL-HDBK-217F):	MTBF > 250.000h at 30°C and full load
Output terminals:	Cord with/without plug
IP-code:	4X

CHARGE CONTROL

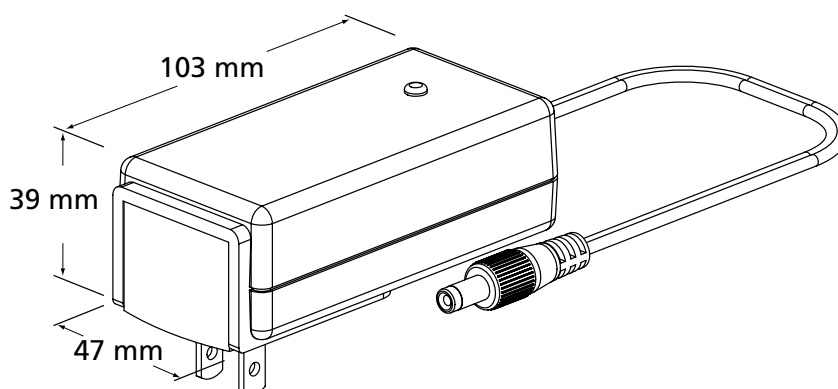
		6V	12V	24V	36V (2241)	48V
	Max. output power	9,5W	14,7W	14,7W	15,4W	14,7W
Step 1	Charge Current (orange)	1,3A +5/-7%	1,0A +5/-7%	0,5A +5/-7%	0,35A +5/-7%	270mA +5/-7%
Step 2	Charge Voltage (orange)	7,35V	14,7V	29,4V	44,1V	58,8V
Step 3	Charge Termination I< (green)	250mA ±20%	250mA ±20%	250mA ±20%	150mA ±20%	100mA ±20%
	Standby voltage:	6,85V	13,7V	27,4V	41,1V	54,8V
	Recommended battery capacity	4-12Ah	3-12Ah	1,5-12Ah	1-7,5Ah	0,8-5Ah



For 2241 only:
Exchangeable AC plug models

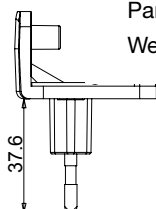


2-pin IEC 320 C7 mains cord
1800 mm EU part no. 131306
UK part no. 131148, US part no.
131147, AU part no. 013108



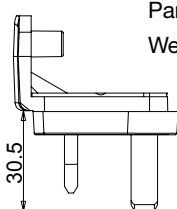
EU plug

Part no. 018110
Weight: 21 g



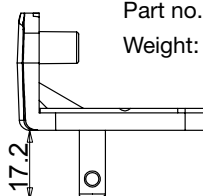
UK plug

Part no. 018112
Weight: 30 g



US plug

Part no. 018111
Weight: 14 g



AU plug

Part no. 018114
Weight: 28 g

