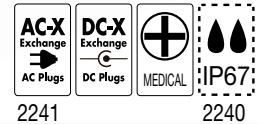


## Chargers for Li-Ion batteries - switch mode

### tech spec

### 2241 LI - exchangeable / utskiftbare AC plugs

- 3-step charge control with current detection as charge termination
- Universal input voltage (90-264 VAC)
- Charging 1-7 battery cells
- Order mains cord separately
- Waterproof (IP67) version available
- Exchangable AC and DC plugs
- Custom specifications on request
- Approvals:
  - Medically certified EN 60601-1 3ed
  - UL approved
  - For updates: see [www.mascot.no](http://www.mascot.no)
- 3-trinns ladekontroll med strøm-deteksjon som ladestopp
- Universal inngangsspenning (90-264 VAC)
- Opplading av 1-7 battericeller
- Nettledning best. separat
- Vanntett (IP67) versjon kan leveres
- Utskiftbare AC og DC plugger
- Tilpasninger leveres på forespørsel
- Godkjenninger:
  - Medisinsk sertifisert EN 60601-1 3ed
  - UL godkjent
  - For oppdat.: se [www.mascot.no](http://www.mascot.no)



2241

2240

### Technical specifications    Tekniske data

Input voltage:	Inngangsspenning:	90-264 VAC
Line frequency:	Frekvensområde:	47 – 63Hz
Switch frequency, approx.:	Svitsjefrekvens ca.:	40kHz
Leakage current from battery with mains switched off:	Strømtrekk fra batteri ved frakoblet nett:	≈ 0
Temperature range	Temperaturområde	
• Operating:	• Drift:	-25 °C - +40 °C
• Storage:	• Lagring:	-25 °C - +85 °C
Ripple:	Rippel:	< 100 mV p-p
Protection:	Beskyttelse.:	Protected against reversed polarity and short circuit proof Polvendings- og kortslutningssikker
Insulation class:	Isolasjonsklasse:	II
Insulation voltage	Isolasjonsspenning	
• Primary – secondary:	• Primær - sekundær:	4000VAC / 5640VDC
Electrical safety:	Elektrisk sikkerhet:	EN 60601-1 3ed, EN 60950, EN 60335-2-29,
EMC standards	EMC standarder	
• Medical:	• Medisinsk:	EN 60601-1-2
• Emission:	• Emisjon:	EN 61000-6-3
• Immunity:	• Immunitet:	EN 61000-6-1
Reliability (MIL-HDBK-217F):	Pålitelighet (MIL-HDBK-217F):	MTBF > 250.000h at 30°C and full load
Output terminals:	Utgangsterminaler:	Cord with/without plug Sekundærledning med / uten plugg
IP-code:	IP-grad:	4X
Dimensions (LxWxH):	Mål (LxBxH):	90 × 45 × 32mm (2240 LI)
Weight:	Vekt:	115g (215g IP67 vers.)

Versions - Versjoner			Charge control - Ladekontroll			
			Step 1	Step 2	Step 3	
Cells	Max. output power (W)	Efficiency 100% at 230V)	Charge current (orange)	Charge voltage (orange)	Charge termination I< (green)	Charge start Vbat<
Celler	Max. utg. effekt	Virkningsgrad	Ladestrom	Ladespenning	Ladestopp I< (grønn)	Ladestart Vbat<
1	5,5	58 %	1,3A +5/-7%	4,2V +-0,05V	100mA +-25%	4,05V+0,05-0,15V
2	10,9	72 %	1,3A +5/-7%	8,4V +-0,1V		8,1V+0,1-0,15V
3	15,1	77 %	1,2A +5/-7%	12,6V +-0,1V		12,3V+0,1-0,15V
4	15,1	80 %	0,9A +5/-7%	16,8V +-0,1V		16,4V+0,1-0,15V
5*	14,7	82 %	0,7A +5/-7%	21,0V +-0,1V		20,5V+0,1-0,15V
6*	15,1	82 %	0,6A +5/-7%	25,2V +-0,1V		24,6V+0,1-0,15V
7*	16,4	82 %	0,56A +5/-7%	29,4V +-0,1V		28,7V+0,1-0,15V

\* Complies with EN 60601-1 3ed. Not UL approved

Eller nettpåslag Or mains turned on



## Exchangeable AC plug models

### Modeller med utskiftbare AC plugger

SMALL HOUSING		
Base model / Grunnmodell		w exch. AC plug
Type	Description / Beskrivelse	Type
2220	AC/DC PSU, max 16W	2221
2924	AC/DC PSU, max 16W	2926
3326	AC/DC PSU, max 28W	3326
2115	NiMH battery charger, max 1,3A	2116
2240	Lead Acid batt. charger, max 1,3A	2241
2240 LI	Li.Ion batt. charger, max 1,3A	2241 LI
2240 LiFePO <sub>4</sub>	LiFePO <sub>4</sub> batt. charger, max 1,3A	2241 LiFePO <sub>4</sub>
Additional housing weight (excl. plug/cord) + 15 g Tilleggsvekt (uten plugg/ledning) + 15 g		

MEDIUM HOUSING		
Base model / Grunnmodell		w exch. AC plug
Type	Description / Beskrivelse	Type
9921	AC/DC PSU, max 40W	9926
2720	AC/DC PSU, max 40W	2721
3020	AC/DC PSU, max 60W	3021
2541	Lead Acid batt. charger, max 2,2A	2542
9940	Lead Acid batt. charger, max 2,3A	9941
2215	LiMH battery charger, max 35W	2216
9940 LI	Li.Ion batt. charger, max 2,3A	9941 LI
2541 LI	Li.Ion batt. charger, max 2,7A	2542 LI
2541 LiFePO <sub>4</sub>	LiFePO <sub>4</sub> batt. charger, max 1,3A	2542 LiFePO <sub>4</sub>
Additional housing weight (excl. plug/cord) + 27 g Tilleggsvekt (uten plugg/ledning) + 27 g		



**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

