

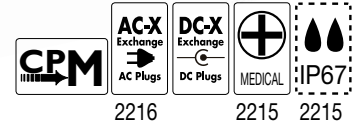
# 2215-2216

## Programmable chargers for NiMH/NiCd batteries

2216 - exchangeable/utskiftbare AC plugs



- Universal input voltage
- CPM-Computer Programmable Microprocessor offering:
  - Charge detection options (one or more):
  - dV, dT/dt, 0 dV, Timer
  - Safety timer, dV threshold, and temp. gradient adjustment
- Approvals:
  - Medically certified EN 60601-1 3ed
  - UL approved
  - For updates: see www.mascot.no
- Universal inngangsspenning
- CPM-Computer Programmerbar Microprosessor tilbyr:
  - Ladedeteksjonsvalg (en eller flere):
  - dV, dT/dt, 0 dV, Timer
  - Justering av sikkerhetstimer, dV nivå og temp. stigningsnivå
- Godkjenninger:
  - Medisinsk sertifisert 60601-1 3ed
  - UL godkjent
  - For oppdat.: se www.mascot.no



2216

2215

2215

### Technical specifications

### Tekniske data

Input voltage:	Inngangsspenning:	90-264 VAC, 50-60Hz
Max. output power:	Maks. utgangseffekt:	35W
Trickle charge current:	Vedlikeholdsladestrøm:	100mA +/-50mA 10-20 cell: 50mA +/-25mA
Leakage current f. battery w mains off:	Strømt. fra batt v. frakobl. nett:	< 1mA
Start timer (no -dV detection)*:	Start timer (ingen -dV deteksjon)*:	3 min.
Top-off timer*:	Top-off timer*:	1 time/hour
Safety timer*:	Sikkerhetstimer*:	2 timer/hours
Switch frequency:	Svitsjefrekvens:	40 kHz
Temperature range:	Temperaturområde:	-20°C - +40 °C
Efficiency (at 100% load):	Virkningsgrad (ved 100% last):	ca 78 %
Protection	Sikring	
• Input:	• Inngang:	Fusible resistor / Sikringsmotstand
• Output:	• Utgang:	Polyswitch fuse against reversed polarity/ Polyswitch-sikring mot polvending
Insulation class:	Isolasjonsklasse:	II
Electrical safety standard:	Elektrisk sikkerhetsstandard:	EN 60601-1, EN 60950, EN 60335-2-29, UL 60601-1
EMC standards	EMC standarder	
• Medical:	• Medisinsk:	EN 60601-1-2
• Emission:	• Emisjon:	EN 61000-6-3
• Immunity*:	• Immunitet*:	EN 61000-6-1
Mains connection**:	Nettilkopling**:	2-pin IEC 320
IP-code:	IP-grad:	41
Dimensions (LxWxH):	Mål (LxBxH):	107 x 67 x 36,5mm (2215)
Weight:	Vekt:	250g

\*Programmable / Programmerbar

\*\* Mains cable not included. Order separately. / Nettledning følger ikke med. Må bestilles i tillegg.

### Versions - Versjoner

Cells	No-load voltage	Min. out. for -dV detection	Max out. for -dV detection	-dV detection mV/cell or %	Fast charge current	Top-off charge (1h. a. -dV det.)
Celler	Tomgangsspenning	Min utsp. for -dV deteksjon	Max utsp. for -dV deteksjon	-dV deteksjon mV/celle eller %	Hurtig ladestrøm	Topplading (1t. e. -dV detek.)
2	8,7V +/-0,7V	2,5V (min. 2 c.)	3,6V (max 2 c.)	11mV/0,6%	3,0A +/- 250mA	390mA +/- 80mA
3-6	12,8V +/-0,7V	3,7V (min. 3 c.)	10,8V (max 6 c.)	11mV/0,6%	3,0A +/- 250mA	390mA +/- 80mA
4-8	16,5V +/-1V	5,0V (min. 4 c.)	14,4V (max 8 c.)	8mV/0,5%	2,2A +/- 150mA	310mA +/- 80mA
5-10	21V +/-1,2V	6,2V (min. 5 c.)	18V (max 10 c.)		1,8A +/- 150mA	270mA +/- 70mA
6-12	24,7V +/-1,5V	7,5V (min. 6 c.)	21,6V (max 12 c.)		1,5A +/- 100mA	240mA +/- 60mA
10-20	41V +/-2V	12,5V (min. 10 c.)	36V (max 20 c.)		0,9A +/- 70mA	130mA +/- 40mA
Note:		min 1,25 V pr. cell	max 1,8 V pr. cell			



## 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

