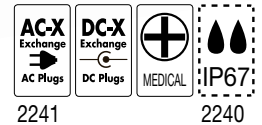


Chargers for lead acid batteries - switch mode

tech spec

2241 - exchangeable/utskiftbare 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 mains cord separately
- Exchangeable AC and DC plugs
- Waterproof (IP67) version available
- Approvals:
 - Medically certified EN 60601-1 3ed
 - UL approved
 - For updates: see www.mascot.no
- 3-trinns ladekontroll med strømdeleksjon som ladestopp
- Universal inngangsspenning (90-264 VAC)
- 2-pin IEC 320 nettkontakt
- Kan leveres med festebrakett
- Nettledning best. separat
- Utskiftbare AC og DC plugger
- Vanntett (IP67) versjon kan leveres
- Godkjenninger:
 - Medisinsk sertifisert 60601-1 3ed
 - UL godkjent
 - For oppdat.: se www.mascot.no



Technical specifications

Tekniske data

12 V*

| | | |
|---|--|--|
| 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 |
| Efficiency (at 100% load, 230V): | Virkningsgrad (100% last, 230V): | 78% |
| 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 standard: | Elektrisk sikkerhetsstandard: | EN 60950, EN 60601-1 3ed, 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 x 45 x 32mm (2240) |
| Weight: | Vekt: | 115g (215g IP67 vers.) 2241:140g |

* Some technical specifications may differ for other voltage versions. / Visse tekniske data kan variere for de forskjellige spenningsversjoner.

Charge control - Ladekontroll

| | | | 6V | 12V | 24V | 36V (2241) | 48V |
|--------|-------------------------------|---------------------------|-------------|-------------|-------------|--------------|--------------|
| | Max. output power | Maks. utgangseffekt | 9,5W | 14,7W | 14,7W | 15,4W | 14,7W |
| Step 1 | Charge Current (orange) | Ladestrøm (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) | Ladespenning (orange) | 7,35V | 14,7V | 29,4V | 44,1V | 58,8V |
| Step 3 | Charge Termination I< (green) | Ladestopp I< (grønn) | 250mA ±20% | 250mA ±20% | 250mA ±20% | 150mA ±20% | 100mA ±20% |
| | Standby voltage: | Vedlikeholdsspenning: | 6,85V | 13,7V | 27,4V | 41,1V | 54,8V |
| | Recommended battery capacity | Anbefalt batterikapasitet | 4-12Ah | 3-12Ah | 1,5-12Ah | 1-7,5Ah | 0,8-5Ah |



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 ₄ | LiFePO ₄ batt. charger, max 1,3A | 2241 LiFePO ₄ |
| 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 ₄ | LiFePO ₄ batt. charger, max 1,3A | 2542 LiFePO ₄ |
| 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

