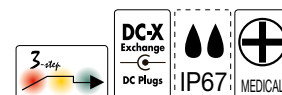


# 2440 LiFePO<sub>4</sub> Max. 4A

## Chargers for LiFePO<sub>4</sub> batteries

- 3-step charge control with current detection as charge termination
- Universal input voltage (90-264 VAC)
- 3 coloured LED indicator
- Order mains cord separately
- Custom design on request: NTC, charge current, other
- Waterproof IP67 version available
- Approvals:
  - Medically certified EN 60601-1 3.1
  - Home Healthcare EN 60601-1-11
  - 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)
- 3-farget lysdiodeindikator
- Nettledning best. separat
- Tilpasninger lev. på forespørsel: NTC, ladestrom m.m.
- Vanntett IP67 versjon tilgjengelig
- Godkjenninger:
  - Medisinsk sertifisert EN 60601-1 3.1
  - Med. hjemmebruk EN 60601-1-11
  - UL-godkjent
  - For oppdat.: se [www.mascot.no](http://www.mascot.no)



### Technical specifications

### Tekniske data

Input voltage:	Inngangsspenning:	90-264 VAC
Line frequency:	Frekvensområde:	47 – 63Hz
Switch frequency, approx.:	Svitsjefrekvens ca.:	40 kHz
Leakage current from battery with mains switched off:	Strømtrekk fra batteri ved frakoblet nett:	<0,7mA @ 6,4V (2-cell version)
Temperature range <ul style="list-style-type: none"> <li>• Operating:</li> <li>• Storage:</li> </ul>	Temperaturområde <ul style="list-style-type: none"> <li>• Drift:</li> <li>• Lagring:</li> </ul>	-25 °C - +40 °C -25 °C - +85 °C
Ripple:	Rippel:	< 100 mV p-p
Protection:	Sikring:	Protected against reversed polarity and short circuit proof Polvendings- og kortslutningssikker
Insulation class:	Isolasjonsklasse:	Class II (Class I on request)
Insulation voltage <ul style="list-style-type: none"> <li>• Primary – secondary:</li> </ul>	Isolasjonsspenning <ul style="list-style-type: none"> <li>• Primær - sekundær:</li> </ul>	4000VAC / 5700VDC
Electrical safety:	Elektrisk sikkerhet:	EN/IEC 60335-2-29, EN/IEC/ANSI 60601-1 (3.1 Ed) & EN/IEC 60601-1-11
EMC standards	EMC standarder	EN 55014-1 and -2, EN/IEC 61000-6-3, EN/IEC 61000-6-1, EN/IEC 60601-1-2
Input terminal:	Inngangsterminal:	2-pin IEC 320 connector (3-pin or fixed cord on request)
Output terminals:	Utgangsterminaler:	Battery clips or DC connector
IP-code:	IP-grad:	41
Dimensions (LxWxH):	Mål (LxBxH):	135 x 80 x 44mm
Weight:	Vekt:	390g (890 g IP67)

Voltage versions – see next page  
Spenningsversjoner – se neste side

Versions / Versjoner			Charge control / Ladekontroll				
			Step 1 (orange)	Step 2a (orange)	Step 2b (yellow / gul)	Step 3 (green / grønn)	
Cells	Max output power (W)	Efficiency (100% at 230V)	Charge current	Charge voltage	To yellow when current is:	To float charge when current is <	Float charge voltage
Celler	Maks. utg. effekt	Virkningsgrad	Ladestrøm	Ladespenning	Til gul når strøm er:	Til vedlikehold når strøm er <	Vedlikeholds spenning
1	15	>60 %	4.0A ±0.2A	3.65V ±0.05V	1.8A ±0.2A	300mA ±25%	3.5V±0.05V
2	29	>80 %	4.0A ±0.2A	7.3V ±0.1V	1.8A ±0.1A	300mA ±25%	7.0V±0.1V
3	44	>80 %	4.0A ±0.2A	10.95V ±0.1V	1.8A ±0.1A	300mA ±25%	10.5V±0.1V
4	58	>81 %	4.0A ±0.2A	14.6V ±0.1V	< 1.6A ±0.1A	300mA ±25%	14.0V±0.1V
5	71	>85 %	3.9A ±0.2A	18.25V ±0.1V	1.6A ±0.1A	300mA ±25%	17.5V±0.1V
6	72	>85 %	3.3A ±0.1A	21.9V ±0.2V	1.6A ±0.1A	300mA ±25%	21.0V ±0.2V
7	72	>85 %	2.8A ±0.1A	25.55V ±0.2V	0.8A ±0.1A	300mA ±25%	24.5V ±0.2V
8	73	>87%	2.5A ±0.1A	29.2V ±0.2V	0.8A ±0.1A	300mA ±25%	28.0V ±0.2V
9	72	>85 %	2.2A ±0.2A	32.85V ±0.2V	0.8A ±0.1A	200mA ±25%	31.5V ±0.2V
10	71	>87%	1.95A ±0.1A	36.5V ±0.2V	0.8A ±0.1A	200mA ±25%	35.0V ±0.2V
11	72	>87%	1.8A ±0.1A	40.15V ±0.2V	0.8A ±0.1A	200mA ±25%	38.5V ±0.2V
12	72	>87%	1.65A ±0.1A	43.8V ±0.3V	0.6A ±0.1A	200mA ±25%	42.0V ±0.2V
13	71	>87%	1.5A ±0.1A	47.45V ±0.3V	0.6A ±0.1A	100mA ±25%	45.5V ±0.2V
14	72	>87%	1.4A ±0.1A	51.1V ±0.3V	0.6A ±0.1A	100mA ±25%	49.0V ±0.2V
15	71	>87%	1.3A ±0.1A	54.75V ±0.3V	0.6A ±0.1A	100mA ±25%	52.5V ±0.2V
16	70	>87%	1.2A ±0.1A	58.4V ±0.3V	0.6A ±0.1A	100mA ±25%	56.0V ±0.2V