

2840-3240 LiFePO₄ Max. 8.5A



tech spec

Chargers for LiFePO₄ batteries - switch mode

3240 LiFePO₄: Autodetect 115/230 VAC

- 3-step charge control with current detection as charge termination
- Charging 1-16 Li-Ion battery cells
- 2-pin IEC 320 connector. 3-pin or fixed mains cord on request
- Mains cord not included
- Waterproof (IP67) version available
- With NTC input on request
- Custom specifications on request
- Approvals:
 - Med. certified EN 60601-1 ed. 3.1
 - UL approved
 - For updates: see www.mascot.no
- 3-trinns ladekontroll med strømdeleksjon som ladestopp
- Opplading av 1-16 Li-Ion battericeller
- 2-pins IEC 320 nettkontakt. 3-pins el fast nettleiding på forespørsel.
- Nettleiding ikke inkludert
- Vanntett (IP67) versjon kan leveres
- Med NTC input på forespørsel
- Tilpasninger leveres på forespørsel
- Godkjenninger:
 - Med. sertifisert EN 60601-1 utg. 3.1
 - UL godkjent
 - For oppdat.: se www.mascot.no



Technical specifications

Tekniske data

Input voltage:	Inngangsspenning:	Autodetect 115/230 (2840: 198-264 VAC)
Line frequency:	Frekvensområde:	47 – 63Hz
Switch frequency, approx.:	Svitsjefrekvens ca.:	65 kHz
Leakage current from battery with mains switched off:	Strømtrekk fra batteri ved frakoblet nett:	<1,3mA
Temperature range	Temperaturområde	
• Operating:	• Drift:	-25 °C - +40 °C
• Storage:	• Lagring:	-25 °C - +85 °C
Ripple:	Rippel:	< 100 mV p-p
Protection:	Sikring:	Protected against reversed polarity and short circuit proof Polvendings- og kortslutningssikker II (I available on request)
Insulation class:	Isolasjonsklasse:	
Insulation voltage	Isolasjonsspenning	
• Primary – secondary:	• Primær - sekundær:	4000VAC / 5700VDC
Electrical safety standard:	Elektrisk sikkerhetsstandard:	EN 60601-1, 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
Input terminal:	Inngangsterminal:	2-pin IEC 320 connector. 3-pin IEC 320 connector or fixed mains cord available on request
Output terminals:	Utgangsterminaler:	Battery clips or DC connector
IP-code:	IP-grad:	41 (IP67 on request)
Dimensions (LxWxH):	Mål (LxBxH):	2840LiFePO ₄ : 135 x 80 x 44mm / 3240LiFePO ₄ : 160 x 81 x 44,3 mm
Weight:	Vekt:	2840LiFePO ₄ : 480g / 3240LiFePO ₄ : 590g

Voltage versions –see next page
Spenningsversjoner – se neste side

			Charge control - Ladekontroll				
			Step 1 (orange)	Step 2a (orange)	Step 2b (gul/yellow)	Step 3 (grønn/green)	
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	Max utg. effekt	Virkningsgrad	Ladestrøm	Ladespenning	Til Gul når strøm er<:	Til vedlikehold når strøm er <	Vedlikeholds spenning
1 Cell	31W	>85%	8.5A +0.1/-0.75A	3.65V ±0.05V	3.8A ±0.2A	300mA ±30%	3.5V ±0.05V
2 Cells	62W	>87%	8.5A +0.1/-0.75A	7.3V ±0.1V	3.5A ±0.2A		7.0V ±0.1V
3 Cells	93W	>89%	8.5A +0.1/-0.75A	10.95V ±0.1V	3.1A ±0.2A		10.5V ±0.1V
4 Cells	102W	>89%	7.0A +0.05/-0.65A	14.6V ±0.1V	2.7A ±0.2A		14.0V ±0.1V
5 Cells	100W	>89%	5.5A +0.1/-0.45A	18.25V ±0.2V	1.9A ±0.2A		17.5V ±0.1V
6 Cells	101W	>89%	4.6A+0.1/-0.4A	21.9V ±0.2V	1.7A ±0.2A		21.0V ±0.2V
7 Cells	100W	>89%	3.9A +0.1/-0.3A	25.55V ±0.2V	1.6A ±0.2A		24.5V ±0.2V
8 Cells	102W	>89%	3.5A +0/-0.4A	29.2V ±0.2V	1.4A ±0.2A		28.0V ±0.2V
9 Cells	102W	>89%	3.1A +0/-0.4A	32.85V ±0.2V	1.3A ±0.2A		31.5V ±0.2V
10 cells	102W	>89%	2.8A +0/-0.3A	36.5V ±0.3V	1.2A ±0.2A		35.0V ±0.2V
11 cells	96W	>89%	2.4A +0.1/-0.3A	40.15V ±0.3V	1.2A ±0.2A		38.5V ±0.4V
12 cells	101W	>89%	2.3A +0.05/-0.3A	43.8V ±0.3V	0.9A ±0.2A		42.0V ±0.4V
13 cells	102W	>89%	2.15A +0/-0.3A	47.45V ±0.3V	0.8A ±0.2A		45.5V ±0.4V
14 cells	102W	>89%	2.0A +0/-0.2A	51.1V ±0.3V	0.7A ±0.2A		49.0V ±0.4V
15 cells	99W	>89%	1.8A +0.05/-0.2A	54.75V ±0.3V	0.6A ±0.2A		52.5V ±0.4V
16 cells	99W	>89%	1.7A +0.05/-0.2A	58.4V ±0.3V	0.6A ±0.2A		56.0V ±0.4V