

SPECIFICATIONS FOR 4440 LiFe	4c LiFeP04	8c LiFeP04
Available versions	x	
Input voltage: / Line frequency	90 - 264VAC / 47 - 63Hz	
Max output power	29.2W	28.9W
Step 0 < 30min Yellow	CC 100mA ± 25mA, when batt voltage < 10.5V.	CC 100mA ± 25mA, when batt voltage < 21V.
Step 0 > 30min Red (4 blinks)	0A / 0V	
Step 1 (Constant Current) Yellow	CC 2.0A ± 0.1A, when 10.5V < Vbat < 14.6V.	CC 1.3A ± 0.1A, when 21V < Vbat < 29.2V.
Step 2 (Constant Voltage) Flashing Yellow	CV 14.6V ± 0.2V, until I charge < 100mA or max. 1h.	CV 29.2V ± 0.2V, until I charge < 60mA or max. 1h.
Charge timer (step2, CV)	1h	
Safety timer (all steps) Red (5 blinks)	72h	
Step 3 (Maintenance voltage) Green	14.0V	28.0V
Restart voltage	13.2V	26.4V
Efficiency (at 100% load) approx.:	85%	
No load consumption	< 0,5 W	
Switch frequency approx.:	35kHz	
Ripple:	< 100mV p-p	
Formation Charge (Step 0)	Low current start-up of deeply discharged battery.	
Float charge:	CC pulses at safe float voltage level for maximum topping of battery capacity.	
Indication when “Battery not connected”	Flashing Green (1s/1s)	
Leakage current from battery with mains switched off:	<0.3 mA	
Temperature compensation of charge voltage (optional):	0 – 45 °C: Normal charge. Battery temperature < 0 °C (too cold) or > 45°C (too hot): No charge, wait until temp. is OK.	
Protection:	Error indications: LED off: Battery voltage too high. Check battery voltage 2 red blinks: Battery is connected to charger with reverse polarity. 3 red blinks: Charger output is shorted. Check cable/connectors. 4 red blinks: Battery voltage is low after start timer has run out. 5 red blinks: Timeout safety timer. 6 red blinks: Defect battery. Abnormal voltage changes 7 red blinks: Temperature too high, disconnect mains to reset 8 red blinks: Thermistor open or short (if mandatory)	
Temperature range:	Operating: -25 to +40oC. Transport and short time storage: -25 to +85oC	
Safety:	EN 62368-1	
Insulation class :	Class II	
Insulation voltage: Primary – secondary:	3000VAC / 4243VDC	
EMC standards:	EN 55014-1 and –2	
Input terminal:	2-pins IEC 320 connector, C8.	
Output terminals:	DC connector, Battery clips, Push-on terminals or open ends.	
IP-Grade:	4X	
Rec. battery capacity:	1Ah (2C) to 10Ah (<100mA charge current as EoC detection)or up to 80Ah (utilizing the 1h CV timer as EoC detection)	0.5Ah (2C) to 6Ah (<60mA charge current as EoC detection) or up to 40Ah (utilizing the 4h CV timer as EoC detection)
Dimensions:	123.5 × 49.5 × 37 mm	
Weight:	220g	
Other:	CBC functionality: Configurable Battery Charger. Charging history: Log of latest charge cycles.	