

SPECIFICATIONS FOR 3743 LiFe		2c LiFePO4	4c LiFePO4
Available versions	x		
Input voltage: / Line frequency	90 - 264VAC / 47 - 63Hz		
Max output power	11.0W	14.6W	
Step 0 < 30min Yellow	CC 100mA ± 25mA, when batt voltage < 5.2V.	CC 100mA ± 25mA, when batt voltage < 10.4V.	
Step 0 > 30min Red (4 blinks)	0A / 0V		
Step 1 (Constant Current) Yellow	CC 1.5A ± 0.1A, when 5.2V < Vbat < 7.3V.	CC 1A ± 0.1A, 10.4V < Vbat < 14.6V.	
Step 2 (Constant Voltage) Flashing Yellow	CV 7.3V ± 0.1V, until I charge < 100mA or max. 1h.	CV 14.6V ± 0.1V, until I charge < 100mA or max. 1h.	
Charge timer (step2, CV)	1h		
Safety timer (all steps) Red (5 blinks)	72h		
Step 3 (Maintenance voltage) Green	7.0V	14.0V	
Restart voltage	6.6V	13.2V	
Efficiency (at 100% load) approx.:	80%	82%	
Average efficiency:	> 78 %	> 80 %	
No load consumption	< 0,5 W		
Switch frequency approx.:	56kHz		
Ripple:	< 100mV p-p		
Rec. battery capacity:	0,75Ah (2C) to 10Ah (cut off current as EoC) or up to 60Ah (CV Timer as EoC)	0,5Ah (2C) to 10Ah (cut off current as EoC) or up to 40Ah (CV Timer as EoC)	
Formation Charge (Step 0)	Low current start-up of deeply discharged battery.		
Wake-up of deeply discharged battery.	Yes, will apply voltage which deactivates deep discharge protection in battery pack.		
Indication when "Battery not connected"	Flashing Green (1s/1s)		
NTC input, on request (std is 10kohm, B-value approx. 4000)	0 – 45 °C: Normal charge. Battery temperature < 0 °C (too cold) or > 45°C (too hot): No charge, wait until temp. is OK.		
Leakage current from battery with mains switched off:	< 300 µA at nominal battery voltage (< 0.22 Ah/month)		
Protection:	Protected against reversed polarity. Error Indication: Red (2 blinks) Short circuit proof. Error Indication: Red (3 blinks) Charging of wrong lower voltage battery pack will be limited to 100mA and terminated after 10min. Indication: Red (4 blinks) Safety timer. Error Indication: Red (5 blinks) No charge (or charge terminated) if connecting wrong battery pack with higher voltage. Indication: LED is OFF.		
Temperature range:	Operating: -25 to +40°C. Storage: -25 to +85°C		
Safety:	Medical EN 60601-1 / Home Healthcare EN 60601-1-11 (VNOM≥110VAC) / Battery Charger EN 60335-2-29		
Insulation class :	Class II		
Insulation voltage: Primary – secondary:	4000VAC / 5700VDC		
EMC standards:	EN 55014-1 and -2, EN 61000-6-3, EN 61000-6-1 EN 60601-1-2		
Input terminal:	2-pins IEC 320 connector for exchangeable mains plug (EU, US, UK and AUS) or mains cord with C7 connector.		
Output terminals:	Cord with/without plug. Exchangeable plugs available.		
IP-Grade:	IP41		
Dimensions:	108,5 x 49 x 29,3 mm		
Weight:	150g		
Other:	CBC functionality: Configurable Battery Charger. Charging history: Log of latest charge cycles.		