BATTERY CHARGER, 453743-F, LiFePO4

SPECIFICATIONS	2 CELLS	4 CELLS
Cell-Con part number:	453743-FB	453743-FD
Input voltage:	90-264VAC	
Line frequency:	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	3.2V
Efficiency (at 100% load) approx.:	0.8	0.82
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 no 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:	<300µA 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 Health Care:** 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:	108.5×49×29.3mm	
Weight:	150g	
Other:	**CBC Functionality:** Configurable Battery Charger. **Charging History:** Log of latest charge cycles.	

CELL-CON
Battery & Charger Solutions

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