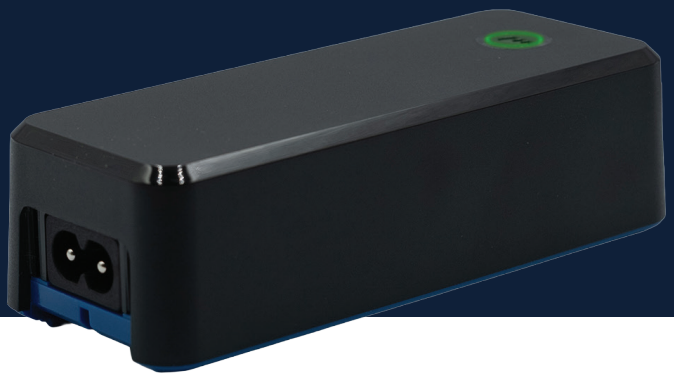

BATTERY CHARGER, 453546-F, LiFePO4

SPECIFICATIONS	2 CELLS	8 CELLS
Cell-Con part number:	453546-FB	453546-FH
Input voltage:	90-264VAC	
Line frequency:	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.:	0.85	
No load consumption:	<0.5W	
Switch frequency approx.:	35kHz	
Ripple:	<100mV p-p	
Formation charge (step 0):	Low current start-up of deeply discharged battery	
Indication when "battery no connected":	Flashing Green (1s/1s)	
Leakage current from battery with mains switched off:	<0.3mA	
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:	**Medical**: EN 60601-1 / **Home Health Care:** EN 60601-1-11 / **Battery Charger:** EN 60335-2-29	
Insulation class:	Class II	
Insulation voltage (primary–secondary):	4000VAC/5700VDC	
EMC standards:	EN 55014-1 and –2, Emission EN 61000-6-3, Immunity EN 61000-6-1, EN 60601-1-2	
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 or up to 40Ah (utilizing the 4h CV timer as EoC detection)
Dimensions:	123.5×49.5×37mm	
Weight:	220g	
Other:	**CBC Functionality:** Configurable Battery Charger. **Charging History**: Log of latest charge cycles.	

CELL-CON
Battery & Charger Solutions

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