BATTERY CHARGER, 453540-F, LiFePO4

SPECIFICATIONS	4 CELLS	8 CELLS	9 CELLS	16 CELLS
Cell-Con part number:	453540-FD	453540-FH	453540-FI	453540-FP
Input voltage:	115 or 230VAC			
Line frequency:	50Hz			
Step 0. <10min (Yellow):	CC 1.0A ±0.2A, when batt voltage <10.5V	CC 0.8A ±0.2A, when batt voltage <21.0V	CC 0.8A ±0.2A, when batt voltage <23.4V	CC 300mA ±50mA, when batt voltage <41.6V
Step 0. >10min (Red 4 blinks):	0A/0V			
Step 1. constant current (Yellow):	CC 20.0A +0.2/-0.3A, when 10.5V <Vbat <14.6V	CC 10A +0.1/-0.3A, when 21.0V <Vbat <29.2V	CC 9.0A +0/-0.3A, when 23.4V <Vbat <32.85V	CC 5.0A +0.1/-0.3A, when 41.6V <Vbat <58.4V
Step 2. constant voltage (Flashing Yellow):	CV 14.6V ±0.1V <14.0A until I charge <1.0A or max. 1h	CV 29.2V ±0.2V <8.4A until I charge <0.8A or max. 1h	CV 32.85V ±0.2V <7.5A until I charge <0.8A or max. 1h	CV 58.4V ±0.3V <3.7A until I charge <300mA or max. 1h
Max output power:	292W	292W	295W	292W
Charge timer (step2, CV):	1h			
Safety timer all steps (Red 5 blinks):	72h			
Step 3. charge completed (Green):	0A			
Restart voltage:	13.2V	26.4V	29.7V	52.8V
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)			
Leakage current from battery with mains switched off:	<170µA @ 14.6V	<160µA @ 29.2V	<170µA @ 32.85V	<170µA @ 58.4V
Efficiency (at 100% load, 115V) approx.:	>90%	>92%	>92%	>91%
Switch frequency approx:	65kHz			
Ripple:	<100mVp-p			
NTC input, on request (std. is 10kohm, B-value approx. (4000K):	0–45 °C: Normal charge. Battery temperature 0 °C (too cold) or >45°C (too hot): No charge, wait until temp. is OK. **WAIT MODE INDICATIONS:** Yellow with 1 red blink: Battery temperature is too low (<0°C) Yellow with 2 red blinks: Battery temperature is too high (>45°C)			
Protection:	Thermal protection. Prevents sparking. Short circuit proof. Error Indication: Red (3 blinks) Safety timer: 72h. Error Indication: Red (5 blinks) Protected against reversed polarity. Error Indication: Red (2 blinks) Charging of wrong lower voltage battery pack (e.g. 2-cell) will be limited to 1.0A 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 +40oC / **Storage:** -25 to +65oC			
Derating:	charge current automatically reduced to approx. 14A at 40°C	charge current automatically reduced to approx. 7.0A at 40oC	charge current automatically reduced to approx. 5.0A at 40oC	charge current automatically reduced to approx. 3.0A at 40oC
Safety:	EN 60601-1			
Insulation class:	Double insulated (Class II)			
Insulation voltage (primary–secondary):	4000VAC/5700VDC			
EMC standards:	EN 60601-1-2: 2015 (Edition 4)			
Input terminal:	2 pin IEC60320 or mains cable			
Output terminals:	Cord with open ends or XLR plug			
Protection against ingress (IP-code):	IP44			
Recommended battery capacity:	10-800Ah	5-400Ah	4.5-360Ah	2.5-200Ah
Dimensions:	210×113×53mm			
Weight approx.:	With mains cable 1400g. With IEC60320 1150g.			

CELL-CON
Battery & Charger Solutions

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