BATTERY CHARGER, 453745-L, LI-ION

SPECIFICATIONS	1 CELL	2 CELLS	3 CELLS	4 CELLS
Cell-Con part number:	453745-LA	453745-LB	453745-LC	453745-LD
Max output power:	1.9W	3.6W	6.3W	
Efficiency (at 100% load) approx.:	64%	68%	70%	
Step 0 <10min Yellow:	CC 40mA ±10mA (typical), when battery voltage <3V	CC 55mA ±15mA (typical), when battery voltage <3V	CC 125mA ±30mA (typical), when battery voltage <3V	CC 200mA ±50mA (typical), when battery voltage <3V
Step 0 >10min Red (4 blinks):	0A / 0V			
Step 1 (constant current) Yellow:	CC 0.45A ±50mA, when 3V <Vbat <4.2V	CC 0.85A ±0.1A, when 3V <Vbat <4.2V	CC 1.5A ±0.15A, when 3V <Vbat <4.2V	
Step 2 (constant Voltage) Flashing Yellow:	CV 4.2V ±0.05V, until I charge <25mA or max. 1h	CV 4.2V ±0.05V, until I charge <55mA or max. 1h	CV 4.2V ±0.05V, until I charge <125mA or max. 1h	CV 4.2V ±0.05V, until I charge <260mA or max. 1h
Charge timer (step2, CV):	1h			
Safety timer (all steps) Red (5 blinks):	6h			
Step 3 (charge completed) Green:	0A			
Restart voltage:	4.1V			
Input voltage/Line frequency:	90-264VAC/47-63Hz			
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 3435):	0–45 °C: Normal charge. Battery temperature <0 °C (too cold) or 45°C (too hot): No charge, wait until temp. is OK.			
Ripple:	<100mV p-p			
Switch frequency approx.:	55kHz			
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 / **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, C8			
Output terminals:	Battery docking			
IP-Grade:	4X			
Dimensions:	115×56×35mm			
Weight:	175g			

CELL-CON
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