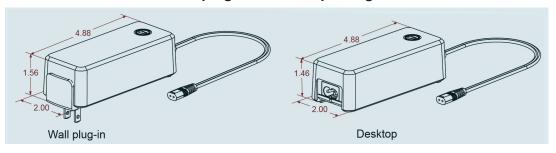
Switch mode Lithium Ion chargers are designed to effectively charge Lithium Ion batteries while protecting the batteries from overcharging.
All charger ratings are based on a nominal input of 90-264 VAC The output current ranges from 700mA to 2.5A.



Features:

- Medically certified / UL approved
- Safety: EN 60601-1 ed. 3.1
- EMC: EN 60601-1-2 ed. 4
- Universal input voltage (90-264VAC)
- Wake up and low current start-up of deeply discharged batteries
- ECO-design compliance: DoE & CEC
- 3 step charge control with current detection as charge termination
- Error indication for reverse polarity, short circuit, charging battery packs with wrong number of cells, and safety timer run out
- With NTC input on request

Use as a wall plug-in or desktop charger



Category	Specifications		
Model number	453546-L Series		
Input rating	Nominal 90-264VAC/47-63Hz		
Cell counts	2, 3, 4, 7, 10		
Switch frequency	≈ 40kHz		
Leakage current from battery	<0.4mA @ nominal battery voltage		
Operating/storage temp.	-25°C - +40°C / -25°C - +85°C		
Ripple	< 100 mV p-p		
Insulation class	Class II		
Insulation voltage	4000VAC (primary) / 5700VDC (secondary)		
Electrical safety approvals	UL 60601-1, EN / IEC 60335-2-29, EN / IEC / ANSI 60601-1		
EMC standards	EN 60601-1-2 (Medical), EN 61000-6-3 / EN55014-1 (Emission), EN55014-2 / EN 61000-6-1 (Immunity)		
IP-code	4X		
Input connection	2 pin IEC 320-C7 (input cordset not included)		
Output connection	2.5mm x 5.5mm x 9.5mm barrel plug, center positive*		
Dimensions / weight	4.88" x 2.00" x 1.46" (124 x 50 x 37mm) / .48 lbs. (220g)		



^{*} Other output connections available upon request

Charger Specifications

			Charge control					
Versions			Step 0 * (yellow)	Step 1 (yellow)	Step 2 (flash yellow)	Step 3 (green)		
Model #	Cell count	Max output power (W)	Low Current startup for deeply discharged batt.	Charge Current	Charge Voltage	Charge term when current is:	Restart	
453546-LB	2	23W	CC 100mA+/-25mA when batt. < 6V	2.5A +/- 0.3A	8.4V +/- 0.1V		8.2V	
453546-LC	3	28W	CC 100mA+/-25mA when batt. < 9V	2.2A +/- 0.2A	12.6V +/- 0.1V		12.3V	
453546-LD	4	28W	CC 100mA+/-25mA when batt. < 12V	1.6A +/15A	16.8V +/- 0.1V	< 100mA or max. 1 hr.	16.4V	
453546-LG	7	29W	CC 100mA+/-25mA when batt. < 21V	1.0A +/- 0.1A	29.4V +/- 0.2V		28.7V	
453546-LJ	10	29W	CC 100mA+/-25mA when batt. < 30V	0.7A +/- 0.7A	42V +/- 0.3V		41V	

- * If step 0 is >10 minutes, the LED will flash red 4x indicating a low battery voltage. Zero current / voltage flows.
- * * When specifying product, please consult with Cell-Con to verify that the specifications identified on this data sheet are current.

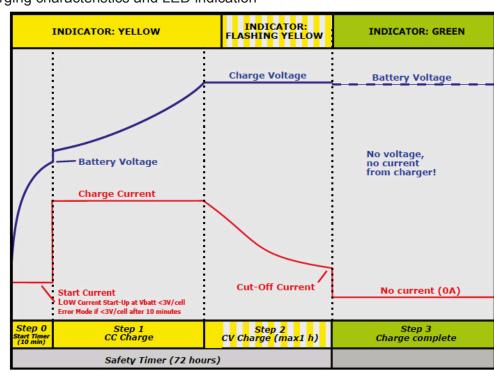
Charging characteristics and LED indication

BATTERY NOT CONNECTED INDICATIONS Battery not connected is indicated by flashing green. In this mode charger will apply short pulses attempting to wake up deeply discharged batteries.

ERROR INDICATIONS (in flashing red)

- 2 red flashes: Battery is connected to charger with wrong polarity.
- 3 red flashes: Charger output is shorted.
 Check output cable connection.
- 4 red flashes: Battery voltage is low. Check battery status or voltage.
- 5 red flashes: Safety timer has run out. Check battery status or capacity.
- LED off: Battery voltage is too high. Check battery voltage.

WAIT MODE INDICATIONS Yellow with 1 red flash: Battery temerature is too low (<0°C) Yellow with 2 red flashes: Battery temerature is too high (>45°C)



AC plug / cordset options

· Removeable AC blades for wall plug-in chargers, or 6' long input cordsets for desktop chargers

Version	USA	European	UK	Australian	
Desktop#	470001	470003	470006	470002	
WPI#	470209	470210	470211	470212	
	0 0	0			

[·] Cordsets for other countries available upon request