

3745 LI Max. 6,3W

Charger for Li-ion batteries - switch mode

3845 LI: Std plug-in housing

- 3-step adaptive charge control.
- Charge adapts to battery pack type, which is automatically identified.
- Order plugs (3845) and mains cord separately
- Automatic battery temperature monitoring and thermal control to prevent charge of cold/warm batteries.
- Universal input voltage. (90-264 VAC)
- Wake up and low current start-up of deeply discharged batteries.
- Error indication for reverse polarity, short circuit, charging battery packs with wrong number of cells and safety timer run-out.
- Approvals:
 - Medically certified
 - Safety: EN 60601-1 ed. 3.1
 - EMC: EN 60601-1-2 ed. 4
 - UL approved

For updates: see www.mascot.no



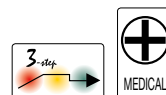
TECHNICAL SPECIFICATIONS 3745 LI

GENERAL INPUT/OUTPUT

Input voltage:	90-264 VAC
Line Frequency:	47 – 63Hz
Switch frequency, approx.:	55 kHz
Leakage current from batt. with mains switched off:	≈ 0A
Temperature range	
• Operating:	-25 °C - +40 °C
• Storage:	-25 °C - +85 °C
Ripple:	< 100 mV p-p
Dimensions (L×W×H):	115 × 56 × 35 mm
Weight:	175g

SAFETY PROTECTION EMC

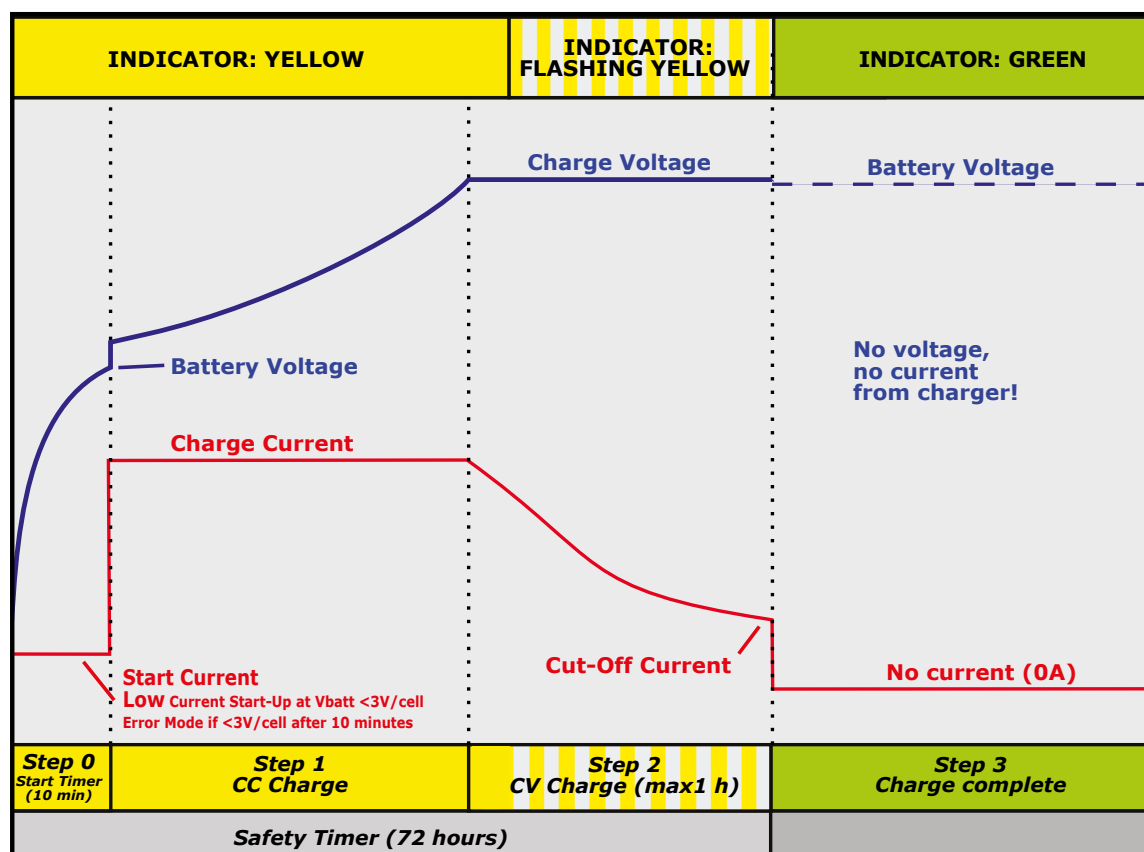
Protection:	Protected against reversed polarity and short circuit proof.
Insulation class:	Class II
Insulation voltage	
Primary – secondary:	4000VAC / 5700VDC
Electrical safety std:	
• Medical:	EN/IEC/ANSI 60601-1
• Household batt. charger:	EN/IEC 60335-1 and -2-29
• A/V and Comm. tech:	EN/IEC/UL 62368-1
	Replaces IEC 60950-1 and IEC 60065
EMC standards	
• Generic:	EN 61000-6-1 and -3
• Medical:	EN 60601-1-2
• Household:	EN 55014-1 and -2
• Information tech.:	EN 55022 and EN 55024
• Multi media:	EN 55032
Input terminals:	2-pin IEC 60320/C8
Output terminals:	Battery docking
IP-code:	4X



VERSIONS

CHARGE CONTROL		Step 0 (yellow)	Step 1 (yellow)	Step 2 (Flash yellow)	Step 3 (green)	
Battery Pack	Max output power (W)	Low Current start-up for deeply discharged batt.	Charge Current	Charge Voltage	Charge termination when I _{ch} :	Restart when V _{bat}
EasyPack S	1.9W	CC 40mA±10mA when batt. < 3V	0.45A ±50mA	4.2V ±0.05V	< 25mA or max. 1 hr.	< 4.1V±0.05V
EasyPack L	3.6W	CC 55mA±15mA when batt. < 3V	0.85A ±0.1A		< 55mA or max. 1 hr.	
EasyPack XL	6.3W	CC 125mA±30mA when batt. < 3V	1.5A ±0.15A		< 125mA or max. 1 hr.	
EasyPack PLUS	6.3W	CC 200mA±50mA when batt. < 3V	1.5A ±0.15A		< 260mA or max. 1 hr.	

Charging characteristics and LED indication *



* an animated video of this charging progress is available on our website

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

- 2 red blinks: Battery is connected to charger with wrong polarity!
- 3 red blinks: Charger output is shorted. Check output cable connection!
- 4 red blinks: Battery voltage is low. Check battery status or voltage.
- 5 red blinks: 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 blink: Battery temperature is too low ($< 0^{\circ}C$)
- Yellow with 2 red blink: Battery temperature is too high ($> 45^{\circ}C$)