# 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:  $\approx 0A$ 

Temperature range

• Operating: -25 °C - +40 °C • Storage: -25 °C - +85 °C Ripple: < 100 mV p-p

**Dimensions (L×W×H):**  $115 \times 56 \times 35 \text{ mm}$ 

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

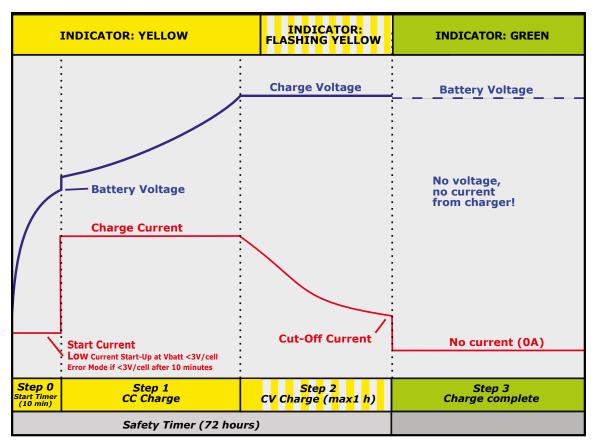
IP-code: 4X

## **VERSIONS**

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



# Charging characteristics and LED indication \*



<sup>\*</sup> 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°C) Yellow with 2 red blink: Battery temperature is too high (>45°C)