

## Model 3743 LA

1,5 A max out • 90-264 VAC input

- 3-step charge control with current detection
- Universal input voltage
- Wake up and low current start-up of deeply discharged batteries
- Safety indication and protection: against reverse polarity, short circuit, charging battery packs with the wrong number of cells and safety timer run-out
- Approvals:
  - Medically certified Safety: EN 60601-1 ed. 3.1 Home healthcare EN 60601-1-11 EMC: EN 60601-1-2 ed. 4

- UL approved

• Custom specifications on request:

Charging parameters, connectors, cords, logo print, housing/open frame/IP rating and certificates. For more information: custom design info sheet

Notes:

Plug-in/Desktop unit Exchangeable AC and DC plugs Exch. DC cable connectors available Order plugs & mains cord separately With NTC input on request

MASCOT type 3743 Lead acid:	6 V	12 V	24 V	48 V
Input voltage: / Line frequency	90 - 264VAC / 47 - 63Hz	90 - 264VAC / 47 - 63Hz	90 - 264VAC / 47 - 63Hz	90 - 264VAC / 47 - 63Hz
Max output power	11 W	14.7 W	16.5 W	17.6 W
Charge control: Charge indication   Step 0 > 30min Yellow   Step 1 (Constant Voltage) Red (4 blinks)   Step 1 (Constant Voltage) Flashing Yellow   Step 1 (Constant Voltage) Red (5 blinks)   Step 2 (Constant Voltage) Red (5 blinks)   Step 3 (Maintenance voltage) Green   Efficiency (at 100% load) approx.: Average efficiency:   No load consumption Switch frequency approx.:   Ripple: Ripple:	CC 100mA ± 25mA, Vbat < 5V. 0A / 0V CC 1.5A ± 5%, 5V < Vbat < 7.35V. CC 7.35V ±0.1V, lch<400mA ±10% or 4h. 4h 72h 6.85V 80 % > 78 % < 0,5 W 56kHz < 100mV p-p	CC 100mA ± 25mA, Vbat < 10.5V. 0A / 0V CC 1A ± 5%, 10.5V < Vbat < 14.7V. CV 14.7V ±0.1V, Ich<250mA ±10% or 4h. 4h 72h 13.7V 82 % > 80 % < 0.5 W 56kHz < 100mV p-p	CC 100mA ± 25mA, Vbat < 21V. 0A / 0V CC 0.56A ± 5%, 21V < Vbat < 29.4V. CV 29.4V ±0.1V, lch<150mA ±10% or 4h. 4h 72h 27.4V 84 % > 80 % < 0.5 W 56kHz < 100mV p-p	CV 58.8V ±0.1V, Ich<100mÅ ±10% or 4h. 4h 72h 54.8V 84 % > 80 % < 0,5 W 56kHz < 100mV p-p
Rec. battery capacity:	7.5Ah (C/5) to 20Ah (<400mA charge current as EoC detection) or up to 75Ah (utilizing the 4h CV timer as EoC detection)	5Ah (C/5) to 12.5Ah (<250mA charge current as EoC detection) or up to 50Ah (utilizing the 4h CV timer as EoC detection)	2.8Ah (C/5) to 7.5Ah (<150mA charge current as EoC detection) or up to 28Ah (utilizing the 4h CV timer as EoC detection)	1.5Ah (C/5) to 5Ah (<100mA charge current as EoC detection) or up to 15Ah (utilizing the 4h CV timer as EoC detection)
Formation Charge (Step 0)	Low current start-up of deeply discharged battery.			
Float charge:	Pulses at safe float voltage level for maximum topping of battery capacity.			
Indication when "Battery not connected"	Flashing Green (1s/1s)			
Leakage current from battery with mains switched off	< 300 µA 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 30min. Indication: Red (4 blinks) Safety time: 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 / Home Healthcare EN 60601-1-11 (V <sub>NOM</sub> ≥110VAC) / Battery Charger EN 60335-2-29			
	Class II			
Insulation class :	Class II			
Insulation class : Insulation voltage: Primary – secondary:	4000VAC / 5700VDC			
		N 61000-6-1, EN 60601-1-2		
Insulation voltage: Primary – secondary:	4000VAC / 5700VDC EN 55014-1 and -2, EN 61000-6-3, E	N 61000-6-1, EN 60601-1-2 Jeable mains plug (EU, US, UK and AU	S) or mains cord with C7 connector.	
Insulation voltage: Primary – secondary: EMC standards:	4000VAC / 5700VDC EN 55014-1 and -2, EN 61000-6-3, E	eable mains plug (EU, US, UK and AU	S) or mains cord with C7 connector.	
Insulation voltage: Primary – secondary: EMC standards: Input terminal:	4000VAC / 5700VDC EN 55014-1 and -2, EN 61000-6-3, E 2-pins IEC 320 connector for exchange	eable mains plug (EU, US, UK and AU	S) or mains cord with C7 connector.	
Insulation voltage: Primary – secondary: EMC standards: Input terminal: Output terminals:	4000VAC / 5700VDC EN 55014-1 and -2, EN 61000-6-3, E 2-pins IEC 320 connector for exchange Cord with/without plug. Exchangeable	eable mains plug (EU, US, UK and AU	S) or mains cord with C7 connector.	



## Available versions

12V / 1A 24V / 0,56A

