

## Model 3546 LI

### 2,5 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:
  - Household safety, EN 60335-1 & -2-29 (6V, 12V, 18V and 24V)
  - 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 available

Order plugs & mains cord separately

Standard DC output cord:

Female connector L 0.75m, AWG 18, UL 1185 Coax

With NTC input on request

Animation showing charge error indications:

https://vimeo.com/679995332



### Available versions

1 cell / 2,5A	2 cell / 2,5A
3 cell / 2,2A	4 cell / 1,6A
5 cell / 1,35A	6 cell / 1,15A
7 cell / 1,0A	8 cell / 0,85A
10 cell / 0,7A	14 cell / 0,5A

MASCOT ELECTRONICS AS SPECIFICATIONS FOR TYPE 3546 Li-Ion Battery Charger PAGE 1 (4)
DATE 02.12.20

MASCOT type 3546 Li-Ion chargers:         1-cell Li-Ion         2-cell Li-Ior           Input voltage: / Line frequency         90-264 Vac/ 47-63           Max output power         10.5W         21W           Charge control:         Charge indication:           Step 0 < 10min         Yellow         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.           Step 0 > 10min         Red         (4 blinks)         0A / 0V         0A / 0V           Step 1 (Constant Current)         Yellow         CC 2.5A ± 0.3A, when 3V < Vbat < 4.2V.         CC 2.5A ± 0.3A, when 6V <	3 Hz 27.7W		
Input voltage: / Line frequency   90-264 Vac/ 47-63	27.7W		
Charge control:         Charge indication:           Step 0 < 10min			
Step 0 < 10min         Yellow         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA, when battery voltage < 3V.         CC 100mA ± 25mA	env voltage < 6V / CC 100mA + 25mA when hatteny voltage < 9		
Step 0 > 10min         Red         (4 blinks)         0A / 0V         0A / 0V           Step 1 (Constant Current)         Yellow         CC 2.5A ± 0.3A, when 3V < Vbat < 4.2V.	$e_{\text{NV}}$ voltage $< 6 \text{V} \mid CC \mid 100 \text{mA} + 25 \text{mA}$ when hatten, voltage $< 6 \text{V}$		
Step 1 (Constant Current)         Yellow         CC 2.5A ± 0.3A, when 3V < Vbat < 4.2V.         CC 2.5A ± 0.3A, when 6V			
	0A / 0V		
Step 2 (Constant Voltage) Flashing Yellow CV 4.2V ± 0.05V, until I charge < 100mA or max. 1h. CV 8.4V ± 0.1V, until I charge < 10.1 max. 1h.	< 100mA or max. CV 12.6V ± 0.1V, until I charge < 100mA or max. 1h.		
Charge timer (step2, CV) 1h 1h	1h		
Safety timer (all steps) Red (5 blinks) 72h 72h	72h		
Step 3 (Charge Completed) Green 0A 0A	0A		
Restart voltage 4.1V 8.2V	12.3V		
Formation Charge (Step 0)  Low current start-up of deeply dis			
Wake-up of deeply discharged battery. Yes, will apply voltage which deactivates deep dis			
Indication when "Battery not connected" Flashing Green (1s.			
NTC input, on request (std is 10kohm, B-value approx. 0 – 45 °C: Normal ch			
4000) Battery temperature < 0 °C (too cold) or > 45°C (too h	hot): No charge, wait until temp. is OK.		
Ripple: < 100mV p-p			
	85 % (70% for 1 cell version)		
	35kHz		
Leakage current from battery with mains switched off: < 300 µA at nominal battery voltage	< 300 μA at nominal battery voltage (< 0.22 Ah/month)		
Short circuit proof. Error Indicatic Protection: Charging of wrong lower voltage battery pack will be limited to 100mA	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 vol			
Temperature range: Operating: -25 to +40°C. Transport and sho	•		
	Medical EN 60601-1 / Home Health care EN 60601-1-11/1 Battery Charger EN 60335-2-29		
Insulation class : Class II			
	4000VAC / 5700VDC		
EMC standards: EN 55014-1 and -2, Emission EN 61000-6-3, Immi	EN 55014-1 and -2, Emission EN 61000-6-3, Immunity EN 61000-6-1, EN 60601-1-2		
Input terminal: 2-pins IEC 320 connec	2-pins IEC 320 connector, C8.		
Output terminals: DC connector, Battery clips, Push-on to	DC connector, Battery clips, Push-on terminals or open ends.		
IP-Grade: 4X			
2.5 Ah (1C) to 10Ah (<100mA charge current as EoC detection) or up to 100Ah (utilizing the 1h CV timer as EoC detection) (utilizing the 1h CV timer as EoC detection)	EoC detection) (<100mA charge current as EoC detection) or up to 88Ah		
	123.5 × 49.5 × 37 mm		
, , ,	mm		

MASCOT ELECTRONICS AS SPECIFICATIONS FOR TYPE 3546 Li-Ion Battery Charger PAGE 2 (4)
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MASCOT type 3546 Li-lon chargers:	4-cell Li-lon	5-cell Li-lon	6-cell Li-lon
Input voltage: / Line frequency	90 - 264VAC / 47 - 63Hz		
Max output power	26.9W	28.4W	29W
Charge control: Charge indication:			
Step 0 < 10min Yellow	CC 100mA ± 25mA, when batt voltage < 12V.	CC 100mA ± 25mA, when battery voltage < 15V.	CC 100mA ± 25mA, when batt voltage < 18V.
Step 0 > 10min Red (4 blinks)	0A / 0V	0A / 0V	0A / 0V
Step 1 (Constant Current) Yellow	CC 1.6A ± 0.15A, when 12V < Vbat < 16.8V.	CC 1.35A ± 0.2A, when 15V < Vbat < 21.0V.	CC 1.15A ± 0.1A, when 18V < Vbat < 25.2V.
Step 2 (Constant Voltage) Flashing Yellow	CV 16.8V ± 0.1V, until I charge < 100mA or max. 1h.	CV 21.0V ± 0.1V, until I charge < 100mA or max. 1h.	CV 25.2V ± 0.2V, until I charge < 100mA or max. 1h.
Charge timer (step2, CV)	1h	1h	1h
Safety timer (all steps) Red (5 blinks)	72h	72h	72h
Step 3 (Charge Completed) Green	0A	0A	0A
Restart voltage	16.4V	20.5V	24.6V
Formation Charge (Step 0)		Low current start-up of deeply discharged battery	
Wake-up of deeply discharged battery.	Yes, will apply vo	oltage which deactivates deep discharge protection	n in battery pack.
Indication when "Battery not connected"		Flashing Green (1s/1s)	
NTC input, on request (std is 10kohm, B-value approx.		0 – 45 °C: Normal charge.	
4000)	Battery temperature	< 0 °C (too cold) or > 45°C (too hot): No charge, v	vait until temp. is OK.
Ripple:	< 100mV p-p		
Efficiency (at 100% load) approx.:	85 %		
Switch frequency approx.:	35kHz		
Leakage current from battery with mains switched off:	< 300 μA at nominal battery voltage (< 0.22 Ah/month)		
		d against reversed polarity. Error Indication: Red	
		Short circuit proof. Error Indication: Red (3 blinks)	
Protection: Charging of wrong lower voltage battery pack will be limited to 100mA and terminated after 10min. Indication: Red (4 bli		after 10min. Indication: Red (4 blinks)	
	Safety timer. Error Indication: Red (5 blinks)		LED :- OFF
	No charge (or charge terminated) if connecting wrong battery pack with higher voltage. Indication: LED is OFF.		
Temperature range:	Operating: -25 to +40°C. Transport and short time storage: -25 to +85°C		
Safety:	Medical EN 60601-1 / Home Health care EN 60601-1-11/ Battery Charger EN 60335-2-29		
Insulation class :	Class II		
Insulation voltage: Primary – secondary:	4000VAC / 5700VDC		
EMC standards:	EN 55014-1 and -2, Emission EN 61000-6-3, Immunity EN 61000-6-1, EN 60601-1-2		
Input terminal:	2-pins IEC 320 connector, C8.		
Output terminals:	DC connector, Battery clips, Push-on terminals or open ends.		
IP-Grade:	4X		
	1.6 Ah (1C) to 10Ah	1.35 Ah (1C) to 10Ah	1.15 Ah (1C) to 10Ah
Rec. battery capacity:	(<100mA charge current as EoC detection)	(<100mA charge current as EoC detection)	(<100mA charge current as EoC detection)
	or up to 64Ah	or up to 54Ah	or up to 46Ah
Pii	(utilizing the 1h CV timer as EoC detection)	(utilizing the 1h CV timer as EoC detection)	(utilizing the 1h CV timer as EoC detection)
Dimensions:	123.5 × 49.5 × 37 mm		
Weight:	220g		

MASCOT ELECTRONICS AS SPECIFICATIONS FOR TYPE 3546 Li-Ion Battery Charger PAGE 3 (4)
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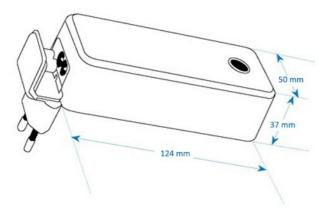
MASCOT type 3546 Li-lon chargers:	7-cell Li-lon	8-cell Li-lon	10-cell Li-lon
Input voltage: / Line frequency	90 - 264VAC / 47 - 63Hz		
Max output power	29.4W 28.6W 29.4W		
Charge control: Charge indication:			
Step 0 < 10min Yellow	CC 100mA ± 25mA, when batt voltage < 21V.	CC 100mA ± 25mA, when batt voltage < 24V.	CC 100mA ± 25mA, when batt voltage < 30V.
Step 0 > 10min Red (4 blinks)	0A / 0V	0A / 0V	0A / 0V
Step 1 (Constant Current) Yellow	CC 1.0A ± 0.1A, when 21V < Vbat < 29.4V.	CC 0.85A ± 0.1A, when 24V < Vbat < 33.6V.	CC 0.7A ± 0.07A, when 30V < Vbat < 42V.
Step 2 (Constant Voltage) Flashing Yellow	CV 29.4V ± 0.2V, until I charge < 100mA or max. 1h.	CV 33.6V ± 0.2V, until I charge < 100mA or max. 1h.	CV 42V ± 0.3V, until I charge < 100mA or max. 1h.
Charge timer (step2, CV)	1h	1h	1h
Safety timer (all steps) Red (5 blinks)	72h	72h	72h
Step 3 (Charge Completed) Green	0A	0A	0A
Restart voltage	28.7V	32.8V	41V
Formation Charge (Step 0)		Low current start-up of deeply discharged battery	
Wake-up of deeply discharged battery.	Yes, will apply ve	oltage which deactivates deep discharge protection	on in battery pack.
Indication when "Battery not connected"		Flashing Green (1s/1s)	•
NTC input, on request (std is 10kohm, B-value approx. 4000)	Rottony tomporature	0 – 45 °C: Normal charge. < 0 °C (too cold) or > 45°C (too hot): No charge, v	wait until tomo in OK
Ripple:	Battery temperature	< 100mV p-p	wait until temp. is Ort.
Efficiency (at 100% load) approx.:		85 %	
Switch frequency approx.:			
Leakage current from battery with mains switched off:	35kHz < 300 μA at nominal battery voltage (< 0.22 Ah/month)		
Leakage current from battery with mains switched oir.	Protected against reversed polarity. Error Indication: Red (2 blinks)		
	Protectea against reversed polarity. Error indication: Red (2 blinks) Short circuit proof. Error Indication: Red (3 blinks)		
Protection:	Charging of wrong lower voltage battery pack will be limited to 100mk (75mA) and terminated after 10min. Indication: Red (4 blinks)		
i Totection.	Safety timer. Error Indication: Red (5 blinks)		
	No charge (or charge terminated) if connecting v		LED is OFF
Temperature range:	No charge (or charge terminated) if connecting wrong battery pack with higher voltage. Indication: LED is OFF.  Operating: -25 to +40°C. Transport and short time storage: -25 to +85°C		
Safety:	Medical EN 60601-1 / Home Health care EN 60601-1-11/1 Battery Charger EN 60335-2-29		
Insulation class :		Class II	g
Insulation voltage: Primary – secondary:	CidsS II 4000VAC / 5700VDC		
EMC standards:	EN 55014-1 and -2, Emission EN 61000-6-3, Immunity EN 61000-6-1, EN 60601-1-2		
Input terminal:	2-pins IEC 320 connector, C8.		
Output terminals:	DC connector, Battery clips, Push-on terminals or open ends.		
IP-Grade:	Do connector, pattery crips, rus		
iii Ciddo.	1Ah (1C) to 10Ah	0.85Ah (1C) to 10Ah	0.7Ah (1C) to 10Ah
	(<100mA charge current as EoC detection)	(<100mA charge current as EoC detection)	(<100mA charge current as EoC detection)
Rec. battery capacity:	or up to 40Ah	or up to 34Ah	or up to 28Ah
	(utilizing the 1h CV timer as EoC detection)	(utilizing the 1h CV timer as EoC detection)	(utilizing the 1h CV timer as EoC detection)
Dimensions:	<u>'</u>	123.5 × 49.5 × 37 mm	,
Weight:	220g		
		y	

MASCOT ELECTRONICS AS SPECIFICATIONS FOR TYPE 3546 Li-Ion Battery Charger

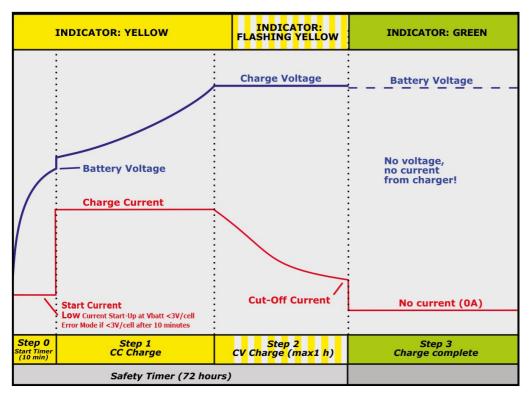
DATE 02.12.20

MASCOT type 3546 Li-lon chargers:	14-cell Li-lon		
Input voltage: / Line frequency			
Max output power	29.4W		
Charge control: Charge indication:			
Step 0 < 10min Yellow	CC 60mA ± 15mA, when batt voltage < 42V.		
Step 0 > 10min Red (4 blinks)	0A / 0V		
Step 1 (Constant Current) Yellow	CC 0.5A ± 0.05A, when 42V < Vbat < 58.8V.		
Step 2 (Constant Voltage) Flashing Yellow	CV 58.8V ± 0.5V, until I charge < 75mA or max. 1h.		
Charge timer (step2, CV)	1h		
Safety timer (all steps) Red (5 blinks)	72h		
Step 3 (Charge Completed) Green	0A		
Restart voltage	57.4V		
Formation Charge (Step 0)		Low current start-up of deeply discharged battery	
Wake-up of deeply discharged battery.	Yes, will apply ve	oltage which deactivates deep discharge protection	n in battery pack.
Indication when "Battery not connected"		Flashing Green (1s/1s)	
NTC input, on request (std is 10kohm, B-value approx.		0 – 45 °C: Normal charge.	
4000)	Battery temperature	< 0 °C (too cold) or > 45°C (too hot): No charge, v	vait until temp. is OK.
Ripple:		< 100mV p-p	
Efficiency (at 100% load) approx.:	85 %		
Switch frequency approx.:	35kHz		
Leakage current from battery with mains switched off:	< 300 μA at nominal battery voltage (< 0.22 Ah/month)		
	Protected against reversed polarity. Error Indication: Red (2 blinks)		
	Short circuit proof. Error Indication: Red (3 blinks)		
Protection:	Charging of wrong lower voltage battery pack will be limited to 100mA (75mA) and terminated after 10min. Indication: Red (4 blinks)		
	Safety timer. Error Indication: Red (5 blinks)		1 ED : 0EE
	No charge (or charge terminated) if connecting wrong battery pack with higher voltage. Indication: LED is OFF.		
Temperature range:	Operating: -25 to +40°C. Transport and short time storage: -25 to +85°C		
Safety:	Medical EN 60601-1 / Home Health care EN 60601-1-11/ Battery Charger EN 60335-2-29		
Insulation class :	Class II		
Insulation voltage: Primary – secondary:	4000VAC / 5700VDC		
EMC standards:	EN 55014-1 and –2, Emission EN 61000-6-3, Immunity EN 61000-6-1, EN 60601-1-2		
Input terminal:	2-pins IEC 320 connector, C8.		
Output terminals:	DC connector, Battery clips, Push-on terminals or open ends.		
IP-Grade:	4X		
	0.5 Ah (1C) to 7.5Ah		
Rec. battery capacity:	(<75mA charge current as EoC detection)		
· · · · · · · · · · · · · · · · · · ·	or up to 20Ah		
D:	(utilizing the 1h CV timer as EoC detection)	100 5 10 5 07	
Dimensions:	123.5 × 49.5 × 37 mm		
Weight:	220g		

### **Technical drawing**



# 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)

# **EU Declaration of Conformity**



We, the responsible manufacturer;

**Mascot Electronics AS** Company Name:

Postal Address: P.O.Box 177, N-1601 Fredrikstad, NORWAY Visiting Address: Mosseveien 109, N-1624 Gressvik, NORWAY

Telephone: (+47) 69 36 43 00 E-mail: sales@mascot.com WEB: www.mascot.com

declare that this Declaration is issued under our sole responsibility and belongs to the following product(s):

Product and intended purpose: Battery Charger for Li-Ion-, LiFePO<sub>4</sub>-, Li-Titanate, Lead-Acid or NiMH/NiCd Batteries

Brand(s): and/or managed (may also carry additional customer name, logo or trade mark)

Type(s)/Model(s)/

UDI-DI:

(may also carry additional customer model name or part number)

Batch / Serial No./

UDI-PI:

all CE-marked products produced from the date indicated below

(for production date: see marking on the product)

Description: max. 0.35 A 100-240 VAC 50-60 Hz, Class II

Output: max. 28 W (see product specific technical information)

1- to 16-cell for Lithium-Ion Batteries or 1- to 16-cell for LiFePO4 Batteries or 1-to 20-cell for Li-Titanate Batteries or

12V, 24V, 36V or 48V for Lead Acid Batteries or

2- to 20-cell for NiMH/NiCd Batteries.

The product(s) described above are in conformity with the relevant European Union harmonisation legislation:

2014/35/EU	EU Directive - Safety of electrical equipment ("Low-Voltage Directive") (LVD) recast, repealing Directives 2006/95/EC & 73/23/EEC
2014/30/EU	EU Directive - Electromagnetic Compatibility (EMC) recast, repealing Directives 2004/108/EC & 89/336/EEC
(EU) 2017/745	EU Regulation - Medical Device Regulation (MDR), Risk Class   Device repealing Directive 93/42/EEC
2009/125/EC	EU Directive - Energy Related Products, Ecodesign (ERP) recast, repealing Directive 2005/32/EC (EUP)
2015/863/EU	EU Directive - Restriction on use of Hazardous Substances in EEE ("RoHS3") recast, repealing Directives 2002/95/EC, 2008/35/EC & 2011/65/EU

### The following harmonised standards and technical specifications have been applied:

(International editions and comments indicated in brackets)

#### Electrical Safety (to LVD- Directive):

EN 60950-1		1:2009, + /AC:2011, + /A12:2011 + /A2:2013 2009 modified + /A2:2013 modified, Edition 2.2)	IT-equipment (ITE), Edition 2.2
EN 60335-1	EN 60335-1:2012 + /A1:2013 + /A2:2 (IEC 60335-1:2010 + /A1:2013 + /A2:		General requirements, Edition 5.2
EN 60335-2-29	EN 60335-2-29:2021	Household and similar appliances-Requirement	ts for battery chargers, Edition 5.0

### Electrical Safety and Electromagnetic Compatibility (to MDR-Directive):

EN 60601-1	EN 60601-1:2006 + /AC:2010 +/A1:2013+/A2:2021 (IEC 60601-1:2005 + /A1:2012+/A2:2020)	Medical electrical equipment, Edition 3.2
EN 60601-1-2	EN 60601-1-2:2015 (IEC 60601-1-2:2014, Edition 4.0)	Medical equipment, EMC - Requirements and tests, Edition 4.0

# **EU Declaration of Conformity**



### Electromagnetic Compatibility (to EMC- Directive):

EN 61000-6-1	EN 61000-6-1:2007 Immunity-residential, comm. & light-industrial environment, Editi (IEC 61000-6-1:2005, Edition 2.0) (also IEC 61000-6-1:2016, Edition 3.0, not yet an EN-norm)	on 2.0
EN 61000-6-3	EN 61000-6-3:2007 + /A1:2011 & /AC:2012 Emission-residential, comm. & light-industrial environment, Editi (IEC 61000-6-3:2007 + /A1:2010)	on 2.1
EN 55014-1	EN 55014-1:2017 Emission-household appliances, Editi (CISPR 14-1:2016, Edition 6.0)	on 6.0
EN 55014-2	EN 55014-2:1997 + /AC:1997, /A1:2001, /A2:2008 Immunity-household appliances, Editi (CISPR 14-2:1997 + /A1:2001 & /A2:2008, Edition 1.2) (also CISPR 14-2:2015, Edition 2.0, but not yet an EN-norm	
EN 55024	EN 55024:2010 Immunity-IT-Equipment, Editi (CISPR 24:2010, Edition 2.0) (also CISPR 24:2010 + /Corr.1:2011 + /A1:2015, Edition 2.1, but not yet an EN-norm)	
EN 55032	EN 55032:2015 + /A11:2020 Emission-Multimedia Equipment, Editi (CISPR 32:2015, Edition 2.0)	on 2.0

### Ecodesign (to ERP-Directive):

Commission Regulation (EC) No 278/2009	implementing Directive 2005/32/EC with regard to ecodesign requirements for no-
	load condition electric power consumption and average active efficiency of external
	power supplies (Note: not applicable to Battery Chargers, ref. Article 1.2 item c) )

### Additional Information:

Compliance with harmonised standards and technical specifications may have been verified by the manufacturer, by third party testing or by a Certification Body (NCB).

The products are considered Risk Class I devices according to the General Medical Devices Directive.

The product(s) may be produced at production sites (for specific product: see "Made in"-marking on the product):

Mascot Electronics AS Mascot Baltic OÜ Mascot Power Supplies (Ningbo) Co.,Ltd

P.O.Box 177, Taevakivi 15 No.128 Jinchuan Road, Zhenhai

N-1601 Fredrikstad, EE-13619 Tallinn Ningbo 315221

NORWAY ESTONIA CHINA

The production sites are certified to standard EN 29001:2015 (ISO 9001:2015):

Mascot Electronics AS: Mascot Baltic OÜ: Mascot Power Supplies (Ningbo) Co.,Ltd:

Kiwa Teknologisk Institutt Metrosert DNV-GL

certificate ref. 044 certificate ref. K-144 certificate ref. 179027-2015

The most recent issue of this Declaration is available at www.mascot.com.

Signed on behalf of Mascot Electronics AS

Fredrikstad, Norway 2023-08-24

Fredrik Johansen, Compliance Manager

fredrie Johansen

Place of issue Date of issue Name, function, signature

Date: Mon Aug 12 2024