

# EU Declaration of Conformity



## We, the responsible manufacturer;

Company Name:	Mascot Electronics AS		
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:	Desktop Battery Chargers for NiCd/NiMH-Batteries (also for medical equipment)																								
Brand(s):	and/or <b>MASCOT</b> (may also carry additional customer name, logo or trade mark)																								
Type(s)/Model(s)/UDI-DI:	2415																								
Batch / Serial No./UDI-PI:	all CE-marked products produced from the date indicated below (for production date: see marking on the product)																								
Description:	<p><b>Data: Input: 1.3A 100 - 250VAC 50-60 Hz, Class II</b></p> <p><b>Output:</b></p> <table border="0"> <tr> <td>3 - 6 cells version:</td> <td>3.7 - 10.8VDC 4.5A</td> <td>(12.8 ±0.7VDC at no-load)</td> </tr> <tr> <td>4 - 8 cells version:</td> <td>5.0 - 14.4VDC 4.0A</td> <td>(16.5 ±1.0VDC at no-load)</td> </tr> <tr> <td>5 - 10 cells version:</td> <td>6.2 - 18.0VDC 3.5A</td> <td>(21 ±1.2VDC at no-load)</td> </tr> <tr> <td>6 - 12 cells version:</td> <td>7.5 - 21.6VDC 3.0A</td> <td>(24.7 ±1.5VDC at no-load)</td> </tr> <tr> <td>10 - 20 cells version:</td> <td>12.5 - 32VDC 2A</td> <td>(41 ±2VDC at no-load)</td> </tr> <tr> <td>12 - 25 cells version:</td> <td>15.0 - 45VDC 1.5A</td> <td>(51 ±2VDC at no-load)</td> </tr> <tr> <td>15 - 30 cells version:</td> <td>18.8 - 49.5VDC 1.3A</td> <td>(55 ±3VDC at no-load)</td> </tr> <tr> <td>20 - 40 cells version:</td> <td>25 - 66VDC 0.6A</td> <td>(69 ±3VDC at no-load)</td> </tr> </table> <p><b>NOTES:</b></p> <ul style="list-style-type: none"> <li>- Versions with output voltage &gt;42.4VDC are not within the scope of standard EN 60335-2-29 Cl.10.101.</li> <li>- For compliance with EN 60601-1 output terminals &gt;60VDC must be inaccessible to the operator.</li> <li>- For EN 60950-1 output voltages &gt;60VDC are regarded ELV and may not be accessible or interconnected.</li> <li>- Versions with output voltage &gt;42.4 VDC are not within the scope of standard EN 60335-2-29 Ed.4 (ref. Cl.10.101).</li> </ul>	3 - 6 cells version:	3.7 - 10.8VDC 4.5A	(12.8 ±0.7VDC at no-load)	4 - 8 cells version:	5.0 - 14.4VDC 4.0A	(16.5 ±1.0VDC at no-load)	5 - 10 cells version:	6.2 - 18.0VDC 3.5A	(21 ±1.2VDC at no-load)	6 - 12 cells version:	7.5 - 21.6VDC 3.0A	(24.7 ±1.5VDC at no-load)	10 - 20 cells version:	12.5 - 32VDC 2A	(41 ±2VDC at no-load)	12 - 25 cells version:	15.0 - 45VDC 1.5A	(51 ±2VDC at no-load)	15 - 30 cells version:	18.8 - 49.5VDC 1.3A	(55 ±3VDC at no-load)	20 - 40 cells version:	25 - 66VDC 0.6A	(69 ±3VDC at no-load)
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## 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
93/42/EEC	EU Directive - General Medical Devices (MDD), Risk Class I Device will from 05.05.2020 be repealed by Regulation (EU) 2017/745
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- & MDD-Directives):

EN 60950-1	EN 60950-1:2006 + /A1:2010, + /A11:2009, + /AC:2011, + /A12:2011 + /A2:2013 (IEC 60950-1:2005 modified + /A1:2009 modified + /A2:2013 modified, Edition 2.2) (will from 20.06.2019 be replaced by standard EN 62368-1:2014 + /AC:2015, Edition 2.0 A/V, ITE & COMM. Equipm.) (IEC 62368-1:2014, Edition 2.0)	IT-equipment (ITE), Edition 2.2
EN 60335-1	EN 60335-1:2012 + /AC:2014 + /A11:2014 (IEC 60335-1:2010 modified, Edition 5.0)(also IEC 60335-1:2010 modified + /A1:2013 + /A2:2016, Edition 5.2)	Household and similar appliances-General requirements, Edition 5.0
EN 60335-2-29	EN 60335-2-29:2004 + /A2:2010 (IEC 60335-2-29:2002 + /A1:2004 + /A2:2009, Edition 4.2) (also IEC 60335-2-29:2016, Edition 5.0)	Household and similar appliances-Requirements for battery chargers, Edition 4.2

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EN 60601-1 EN 60601-1:2006 + /AC:2010 +/A1:2013 Medical electrical equipment, Edition 3.1  
(IEC 60601-1:2005 + /A1:2012)

## Electromagnetic Compatibility (to EMC- & MDD-Directives):

EN 61000-6-1 EN 61000-6-1:2007 Immunity-residential, comm. & light-industrial environment, Edition 2.0  
(IEC 61000-6-1:2005, Edition 2.0) (also IEC 61000-6-1:2016, Edition 3.0, not yet an EN-norm)

EN 61000-6-3 EN 61000-6-3:2007 + /A1:2011 & /AC:2012 Emission-residential, comm. & light-industrial environment, Edition 2.1  
(IEC 61000-6-3:2007 + /A1:2010)

EN 55014-1 EN 55014-1:2006 + /A1:2009 & /A2:2011 Emission-household appliances, Edition 5.2  
(CISPR 14-1:2005 + /A1:2008 & /A2:2011, Edition 5.2) (also CISPR 14-1:2016, Edition 6.0, but not yet an EN-norm)

EN 55014-2 EN 55014-2:1997 + /AC:1997, /A1:2001, /A2:2008 Immunity-household appliances, Edition 1.2  
(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 55022 EN 55022:2010 + /AC:2011 Emission-IT-Equipment, Edition 6.0  
(CISPR 22:2008 modified, Edition 6.0)(Note: CISPR 22 is now replaced by CISPR 32:2012)

EN 55024 EN 55024:2010 Immunity-IT-Equipment, Edition 2.0  
(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 55032:2012 + /AC:2013 Emission-Multimedia Equipment, Edition 1.0  
(CISPR 32:2012 + /Corr.1:2012 + /Corr 2:2012, Edition 1.0) (also CISPR 32:2015, Edition 2.0, but not yet an EN-norm)

EN 60601-1-2 EN 60601-1-2:2007 Medical equipment, EMC - Requirements and tests, Edition 3.0  
from 31/12/2018: EN 60601-1-2:2015 Medical equipment, EMC - Requirements and tests, Edition 4.0  
(IEC 60601-1-2:2007 modified, Edition 3.0)(Note: for IEC: Edition 3.0 is replaced by IEC 60601-1-2:2014, Edition 4.0)

## 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](http://www.mascot.com).

Fredrikstad, Norway

Place of issue

2018-02-22

Date of issue

Signed on behalf of Mascot Electronics AS

  
Finn-Erik Wailin, Compliance Manager

Name, function, signature