

# EU Declaration of Conformity



**We, the responsible manufacturer;**

Company Name:	Mascot Electronics AS																																													
Postal Address:	P.O.Box 177, N-1601 Fredrikstad, NORWAY																																													
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Telephone:	(+47) 69 36 43 00																																													
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WEB:	www.mascot.com																																													
<b>declare that this Declaration is issued under our sole responsibility and belongs to the following product(s):</b>																																														
Product and intended purpose:	Battery Charger for Li-Ion-, LiFePO <sub>4</sub> - or Lead-Acid Batteries																																													
Brand(s):	and/or <b>MASCOT</b> (may also carry additional customer name, logo or trade mark)																																													
Type(s)/Model(s)/UDI-DI:	2240 and 2241 (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:	<p><b>Input: max. 0.35 A 100-240 VAC 50-60 Hz, Class II</b></p> <p><b>Output:</b></p> <p>versions for Lead-Acid Batteries 6 - 48 V:</p> <table border="1"> <tr> <td>6 V max. 1.3 A</td> <td>12 V max. 1.0 A</td> <td>24 V max. 0.5 A</td> <td>36 V max. 0.35 A</td> <td>48 V max. 0.27 A</td> </tr> </table> <p>versions for Li-Ion Batteries 1 - 16 cell:</p> <table border="1"> <tr> <td>1 cell max. 1.3 A</td> <td>2 cell max. 1.3 A</td> <td>3 cell max. 1.2 A</td> <td>4 cell max. 0.9 A</td> <td>5 cell max. 0.75 A</td> </tr> <tr> <td>6 cell max. 0.65 A</td> <td>7 cell max. 0.56 A</td> <td>8 cell max. 0.49 A</td> <td>9 cell max. 0.43 A</td> <td>10 cell max. 0.39 A</td> </tr> <tr> <td>11 cell max. 0.35 A</td> <td>12 cell max. 0.32 A</td> <td>13 cell max. 0.3 A</td> <td>14 cell max. 0.27 A</td> <td>15 cell max. 0.24 A</td> </tr> <tr> <td>16 cell max. 0.22 A</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p>versions for LiFePO<sub>4</sub> Batteries 1 - 16 cell:</p> <table border="1"> <tr> <td>1 cell max. 1.3 A</td> <td>2 cell max. 1.3 A</td> <td>3 cell max. 1.3 A</td> <td>4 cell max. 1.0 A</td> <td>5 cell max. 0.88 A</td> </tr> <tr> <td>6 cell max. 0.73 A</td> <td>7 cell max. 0.64 A</td> <td>8 cell max. 0.56 A</td> <td>9 cell max. 0.5 A</td> <td>10 cell max. 0.45 A</td> </tr> <tr> <td>11 cell max. 0.4 A</td> <td>12 cell max. 0.37 A</td> <td>13 cell max. 0.34 A</td> <td>14 cell max. 0.32 A</td> <td>15 cell max. 0.3 A</td> </tr> <tr> <td>16 cell max. 0.28 A</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p>NOTES:</p> <ul style="list-style-type: none"> <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> <li>- For compliance with EN 60601-1 and EN 60950-1 output terminals &gt;60 VDC must be inaccessible to operator and may not be interconnected.</li> </ul>	6 V max. 1.3 A	12 V max. 1.0 A	24 V max. 0.5 A	36 V max. 0.35 A	48 V max. 0.27 A	1 cell max. 1.3 A	2 cell max. 1.3 A	3 cell max. 1.2 A	4 cell max. 0.9 A	5 cell max. 0.75 A	6 cell max. 0.65 A	7 cell max. 0.56 A	8 cell max. 0.49 A	9 cell max. 0.43 A	10 cell max. 0.39 A	11 cell max. 0.35 A	12 cell max. 0.32 A	13 cell max. 0.3 A	14 cell max. 0.27 A	15 cell max. 0.24 A	16 cell max. 0.22 A					1 cell max. 1.3 A	2 cell max. 1.3 A	3 cell max. 1.3 A	4 cell max. 1.0 A	5 cell max. 0.88 A	6 cell max. 0.73 A	7 cell max. 0.64 A	8 cell max. 0.56 A	9 cell max. 0.5 A	10 cell max. 0.45 A	11 cell max. 0.4 A	12 cell max. 0.37 A	13 cell max. 0.34 A	14 cell max. 0.32 A	15 cell max. 0.3 A	16 cell max. 0.28 A				
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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 26.05.2021 be repealed by "MDR" 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) (from 20.06.2019: replaced by standard EN 62368-1:2014 + /AC:2015, Edition 2.0 (IEC 62368-1:2014, Edition 2.0)	IT-equipment (ITE), Edition 2.2 A/V, ITE & COMM. Equipm.)
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
EN 60601-1	EN 60601-1:2006 + /AC:2010 + /A1:2013 (IEC 60601-1:2005 + /A1:2012)	Medical electrical equipment, Edition 3.1

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## Electrical Safety and Electromagnetic Compatibility (to MDR/MDD-Directives):

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

## Electromagnetic Compatibility (to EMC-Directive):

EN 61000-6-1	EN 61000-6-1:2007 (IEC 61000-6-1:2005, Edition 2.0) (also IEC 61000-6-1:2016, Edition 3.0, not yet an EN-norm)	Immunity-residential, comm. & light-industrial environment, Edition 2.0
EN 61000-6-3	EN 61000-6-3:2007 + /A1:2011 & /AC:2012 (IEC 61000-6-3:2007 + /A1:2010)	Emission-residential, comm. & light-industrial environment, Edition 2.1
EN 55014-1	EN 55014-1:2006 + /A1:2009 & /A2:2011 (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)	Emission-household appliances, Edition 5.2
EN 55014-2	EN 55014-2:1997 + /AC:1997, /A1:2001, /A2:2008 (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)	Immunity-household appliances, Edition 1.2
EN 55022	EN 55022:2010 + /AC:2011 (CISPR 22:2008 modified, Edition 6.0)(Note: CISPR 22 is now replaced by CISPR 32:2012)	Emission-IT-Equipment, Edition 6.0
EN 55024	EN 55024:2010 (CISPR 24:2010, Edition 2.0) (also CISPR 24:2010 + /Corr.1:2011 + /A1:2015, Edition 2.1, but not yet an EN-norm)	Immunity-IT-Equipment, Edition 2.0
EN 55032	EN 55032:2012 + /AC:2013 (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)	Emission-Multimedia Equipment, Edition 1.0

## Ecodesign (to ERP-Directive):

Commission Regulation (EC) No 2019/1782	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 (Repealing Commission Regulation (EC) No 2019/1782 from 2020-04-01) (Note: not applicable to Battery Chargers, ref. Article 1.2 item c )
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## Ecodesign for U.S.A. (Note: depends on battery used !):

US Code of Federal Regulations (CFR) Also called "DoE compliance"	10 CFR Part 430 - Energy Conservation Program for Consumer Products, 10 CFR Part 430, Subpart B - Test Procedures, 10 CFR Appendix Y to Subpart B of Part 430, Uniform Test Method for Measuring the Energy Consumption of Battery Chargers
California Code of Regulations (CCR) Also called "CEC-400 compliance" referring to CEC-400-2017-002 "2016 Appliance Efficiency Regulations" issued by California Energy Commission	CCR Title 20 - Public Utilities and Energy, Division 2 - State Energy Resources Conservation and Development Commission, Chapter 4 - Energy Conservation, Article 4 - Appliance Efficiency Regulations, Sections 1601 to 1609

## 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 Baltic OÜ, Taevakivi 15, EE-13619 Tallinn, ESTONIA
- Mascot Power Supplies (Ningbo) Co.,Ltd, No.128 Jinchuan Road, Zhenhai, Ningbo 315221, CHINA

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

- Mascot Baltic OÜ: Metrosert, certificate ref. K-144
- Mascot Power Supplies (Ningbo) Co.,Ltd: DNV-GL, certificate ref. 179027-2015

Type 2240 may be delivered with 2-pins IEC 60320 inlet for detachable mains cord or with non-detachable mains cord) and may also be delivered as protected against ingress of objects and water according to IP67 to standard EN/IEC 60529 (fitted with non-detachable mains cord and filled with PUR compound)

Type 2241 is for Direct Plug-In (when used with exchangeable mains plug-adapters) and for detachable mains cord.

The most recent issue of this Declaration is available at [www.mascot.com](http://www.mascot.com).

Fredrikstad, Norway	2020-06-11	Signed on behalf of Mascot Electronics AS  Finn-Erik Wailin, Compliance Manager
Place of issue	Date of issue	Name, function, signature