

EU & UK Declaration of Conformity



We, the responsible manufacturer;

Company Name: **Mascot Electronics AS**
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 Visiting Address: **Mosseveien 109, N-1624 Gressvik, NORWAY**
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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-, LiFePO₄-, Li-Titanate-, NiMH/NiCd- or Lead-Acid Batteries**

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

Type(s)/Model(s)/	4040	2xMOOP to IEC 60601-1, rated input voltage 100- 240 V, 50- 60 Hz
UDI-DI:	4040V	2xMOOP to IEC 60601-1, rated input voltage 100- 240 V 50 Hz/ 100- 220 V 60 Hz
	4040P	2xMOPP to IEC 60601-1, rated input voltage 100- 240 V, 50- 60 Hz
	4040VP	2xMOPP to IEC 60601-1, rated input voltage 100- 240 V 50 Hz/ 100- 220 V 60 Hz
	4040B	2xMOOP to IEC 60601-1, PWB-only, for building-in, rated input voltage 100 - 240 V, 50 - 60 Hz
	4040VB	2xMOOP to IEC 60601-1, PWB-only, for building-in, rated input voltage 100 - 240 V 50 Hz/ 100 - 220 V 60 Hz
	4040BP	2xMOPP to IEC 60601-1, PWB-only, for building-in, rated input voltage 100 - 240 V, 50 - 60 Hz
	4040VBP	2xMOPP to IEC 60601-1, PWB-only, for building-in, rated input voltage 100 - 240 V 50 Hz/ 100 - 220 V 60 Hz

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

Batch / Serial No./ UDI-PI: **all CE- and/or UKCA- marked products produced from the date indicated below**
 (for production date: see marking on the product)

Description: **Input: max. 1.6 A 100-240 VAC 50-60 Hz, Class I or Class II**

Output:

versions for Lead-Acid Batteries 6 - 48 V:

6 V max. 10.0 A	12 V max. 8.0 A	18 V max. 5.3 A	24 V max. 4.0 A	36 V max. 2.66 A
48 V max. 2.0 A				

versions for Li-Ion Batteries 1 - 14 cell:

1 cell max. 10.0 A	2 cell max. 10.0 A	3 cell max. 9.0 A	4 cell max. 7.0 A	5 cell max. 5.6 A
6 cell max. 4.65 A	7 cell max. 4.0 A	8 cell max. 3.5 A	9 cell max. 3.1 A	10 cell max. 2.8 A
11 cell max. 2.54 A	12 cell max. 2.33 A	13 cell max. 2.15 A	14 cell max. 2.0 A	

versions for LiFePO₄ Batteries 1 - 16 cell:

1 cell max. 10.0 A	2 cell max. 10.0 A	3 cell max. 10.0 A	4 cell max. 8.0 A	5 cell max. 6.4 A
6 cell max. 5.3 A	7 cell max. 4.6 A	8 cell max. 4.0 A	9 cell max. 3.5 A	10 cell max. 3.2 A
11 cell max. 2.92 A	12 cell max. 2.68 A	13 cell max. 2.47 A	14 cell max. 2.3 A	15 cell max. 2.15 A
16 cell max. 2.0 A				

versions for Li-Titanate Batteries 1 - 20 cell:

1 cell max. 10.0 A	2 cell max. 10.0 A	3 cell max. 10.0 A	4 cell max. 10.0 A	5 cell max. 8.2 A
6 cell max. 6.8 A	7 cell max. 5.9 A	8 cell max. 5.1 A	9 cell max. 4.5 A	10 cell max. 4.1 A
11 cell max. 3.7 A	12 cell max. 3.4 A	13 cell max. 3.17 A	14 cell max. 2.94 A	15 cell max. 2.75 A
16 cell max. 2.57 A	17 cell max. 2.42 A	18 cell max. 2.29 A	19 cell max. 2.17 A	20 cell max. 2.00 A

versions for NiMH/NiCd Batteries:

2 cell max. 10.0 A	3-6 cell max. 10.0 A	4-8 cell max. 8.0 A	5-10 cell max. 6.5 A	6-12 cell max. 5.4 A
10-20 cell max. 3.2 A	10-22 cell max. 2.9 A	15-30 cell max. 2.18 A	20-40 cell max. 1.96 A	

NOTES:
 - For compliance with EN 60601-1 output terminals >60 VDC must be inaccessible to operator and may not be interconnected.

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

2014/30/EU	EU Directive - Electromagnetic Compatibility (EMC) recast, repealing Directives 2004/108/EC & 89/336/EEC
(EU) 2017/745	EU Regulation - Medical Devices Regulation (MDR), Risk Class I 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 product(s) described above are in conformity with the relevant U.K. legislation for UKCA-marking:

Electrical Equipment (Safety) Regulations 2016

Electromagnetic Compatibility (EMC) Regulations 2016

The Medical Devices (Amendment etc.) (EU Exit) Regulations 2020, Risk Class I Device

Ecodesign for Energy-Related Products (External Power Supplies) Regulations 2020

Draft Regulation, awaiting implementation

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

The following harmonised standards and/or technical specifications have been applied:

(International editions and comments indicated in brackets):

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

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 (Also tested according to 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
EN 60601-1-11	EN 60601-1-11:2015 (IEC 60601-1-2:2015/A1:2020, Edition 2.1)	Medical equipment, Home Healthcare, Edition 2.0

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

Ecodesign to EU ERP-Directive:

Commission Regulation (EC) No 2019/1782	implementing Directive 2009/125/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)
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Ecodesign for U.K.:

Draft Regulation only (awaiting implementation)	Draft "Ecodesign for Energy-Related Products (External Power Supplies) Regulations 2020" (Note: not applicable to Battery Chargers)
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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 or 10 CFR Appendix Z to Subpart B of Part 430, Uniform Test Method for Measuring the Energy Consumption of External Power Supplies, whichever applicable.
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

Restriction of the Use of certain Hazardous Substances (RoHS) for EU:

2015/863/EU "RoHS3"	EU Directive - Restriction on use of Hazardous Substances in EEE Restriction of the Use of certain Hazardous Substances in Electrical and Electronic Equipment
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Restriction of the Use of certain Hazardous Substances for UK:

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

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 EU Medical Devices Directive, EU Medical Devices Regulation and the U.K. Medical Devices (Amendment etc.) (EU Exit) Regulations 2020.

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

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

Fredrikstad, Norway

Place of issue

2023-06-16

Date of issue

Signed on behalf of Mascot Electronics AS



Fredrik Johansen, Compliance Manager

Name, function, signature