

# EU & UK Declaration of Conformity



We, the responsible manufacturer;

Company Name:	Mascot Electronics AS		
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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 Lead-Acid, Li-Ion or LiFePO<sub>4</sub> Batteries**

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

Type(s)/Model(s)/ UDI-DI: **2541 and 2542**  
(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: 0.9A 100-240VAC 50-60 Hz, Class II**

**Output:**

Charger for Lead Acid Batteries:			
"6 V"	Output:	7.35 V ±10%	max. 2.7 A /20 W
"12 V"	Output:	14.7 VDC ±10 %	max. 2.2 A /33 W
"18 V"	Output:	22.20 V ±10%	max. 1.5 A /34 W
"24 V"	Output:	29.40 V ±10%	max. 1.2 A /36 W
"36 V"	Output:	44.10 V ±10%	max. 0.8 A /36 W
"48 V"	Output:	58.80 V ±10%	max. 0.6 A /35 W
Charger for Lithium Batteries:			
"1 cell"	Output:	4.20 V ±10%	max. 2.7 A /12 W
"2 cell"	Output:	8.40 V ±10%	max. 2.7 A /23 W
"3 cell"	Output:	12.60 V ±10%	max. 2.3 A /29 W
"4 cell"	Output:	16.80 V ±10%	max. 2.0 A /34 W
"5 cell"	Output:	21.00 V ±10%	max. 1.6 A /34 W
"6 cell"	Output:	25.20 V ±10%	max. 1.4 A /35 W
"7 cell"	Output:	29.40 V ±10%	max. 1.2 A /35 W
"8 cell"	Output:	33.60 V ±10%	max. 1.0 A /35 W
"9 cell"	Output:	37.80 V ±10%	max. 0.9 A /35 W
"10 cell"	Output:	42.00 V ±10%	max. 0.8 A /35 W
"11 cell"	Output:	46.20 V ±10%	max. 0.7 A /33 W
"12 cell"	Output:	50.40 V ±10%	max. 0.7 A /35 W
"13 cell"	Output:	54.60 V ±10%	max. 0.6 A /33 W
"14 cell"	Output:	58.80 V ±10%	max. 0.6 A /35 W
Charger for Li-FePO <sub>4</sub> Batteries:			
"1 cell"	Output:	3.65 V ±10%	max. 2.7 A /10 W
"2 cell"	Output:	7.30 V ±10%	max. 2.7 A /20 W
"3 cell"	Output:	10.95 V ±10%	max. 2.3 A /26 W
"4 cell"	Output:	14.60 V ±10%	max. 2.0 A /29 W
"5 cell"	Output:	18.25 V ±10%	max. 1.6 A /29 W
"6 cell"	Output:	21.90 V ±10%	max. 1.4 A /31 W
"7 cell"	Output:	25.55 V ±10%	max. 1.2 A /31 W
"8 cell"	Output:	29.20 V ±10%	max. 1.2 A /35 W
"9 cell"	Output:	32.85 V ±10%	max. 1.0 A /33 W
"10 cell"	Output:	36.50 V ±10%	max. 0.9 A /33 W
"11 cell"	Output:	40.15 V ±10%	max. 0.8 A /33 W
"12 cell"	Output:	43.80 V ±10%	max. 0.7 A /31 W
"13 cell"	Output:	47.45 V ±10%	max. 0.7 A /34 W
"14 cell"	Output:	51.10 V ±10%	max. 0.6 A /31 W
"15 cell"	Output:	54.75 V ±10%	max. 0.6 A /33 W
"16 cell"	Output:	58.40 V ±10%	max. 0.6 A /35 W

Charger for Li-Titanate Batteries:			
"1 cell"	Output:	2.85 V ±10%	max. 2.7 A /8 W
"2 cell"	Output:	5.70 V ±10%	max. 2.7 A /16 W
"3 cell"	Output:	8.55 V ±10%	max. 2.7 A /23 W
"4 cell"	Output:	11.40 V ±10%	max. 2.3 A /27 W
"5 cell"	Output:	14.25 V ±10%	max. 2.2 A /33 W
"6 cell"	Output:	17.10 V ±10%	max. 1.9 A /33 W
"7 cell"	Output:	19.95 V ±10%	max. 1.6 A /32 W
"8 cell"	Output:	22.80 V ±10%	max. 1.6 A /34 W
"9 cell"	Output:	25.65 V ±10%	max. 1.2 A /31 W
"10 cell"	Output:	28.50 V ±10%	max. 1.2 A /34 W
"11 cell"	Output:	31.35 V ±10%	max. 1.0 A /32 W
"12 cell"	Output:	34.20 V ±10%	max. 1.0 A /35 W
"13 cell"	Output:	37.05 V ±10%	max. 0.9 A /34 W
"14 cell"	Output:	39.90 V ±10%	max. 0.8 A /32 W
"15 cell"	Output:	42.75 V ±10%	max. 0.8 A /35 W
"16 cell"	Output:	45.60 V ±10%	max. 0.7 A /32 W
"17 cell"	Output:	48.45 V ±10%	max. 0.7 A /34 W
"18 cell"	Output:	51.30 V ±10%	max. 0.6 A /31 W
"19 cell"	Output:	54.15 V ±10%	max. 0.6 A /33 W
"20 cell"	Output:	57.00 V ±10%	max. 0.6 A /35 W

NOTE:  
 - Versions with output voltage >42.4 VDC are not within the scope of standard EN 60335-2-29 Ed.4 (ref. Cl.10.101).  
 - The output from versions with output voltage >45 VDC do not comply with standards EN 60601-1 and EN 60950-1 during fault conditions unless the output circuit is installed to be inaccessible to the user.

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

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 Medical Device Regulation (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 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 technical specifications have been applied:

(International editions and comments indicated in brackets):

**Electrical Safety (to EU LVD-Directive and UK Electrical Equipment Regulations 2016):**

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)	IT-equipment (ITE), Edition 2.2 (OBS! expired for CE-marking !!)
EN 62368-1	EN 62368-1:2020 (IEC 62368-1:2018)	IT-equipment (ITE), Edition 3.0
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

**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 EU EMC-Directive & UK Electromagnetic Compatibility Regulations 2016):**

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 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 EU 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.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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**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

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Type 2541 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 2542 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).

Signed on behalf of Mascot Electronics AS

Fredrikstad, Norway

Place of issue

2022-09-19

Date of issue

A handwritten signature in blue ink that reads 'Fredrik Johansen'.

Fredrik Johansen, Compliance Manager

Name, function, signature