

EU DECLARATION OF CONFORMITY

We, the responsible manufacturer,

Company name: ACCU-24 Batterien & Systeme GmbH
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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- or Lead-Acid Batteries**
Brand(s): **airbat[®] and/or ACCU-24** (may also carry additional customer name, logo or trade mark)
Type(s)/Model(s)/UDI-DI: **2240 / 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: **Input: max.0.35A 100-240VAC 50-60 Hz, Class II**

Output:	versions for lead-acid batteries	versions for Li-Ion batteries:	versions for LiFePO ₄ batteries:
6 - 48V		1 cell max. 1.3A	1 cell max. 1.3A
6V max. 1.3A		2 cell max. 1.3A	2 cell max. 1.3A
12V max. 1.0A		3 cell max. 1.2A	3 cell max. 1.3A
24V max. 0.5A		4 cell max. 0.9A	4 cell max. 1.0A
36V max. 0.35A		5 cell max. 0.75A	5 cell max. 0.88A
48V max. 0.27A		6 cell max. 0.65A	6 cell max. 0.73A
		7 cell max. 0.56A	7 cell max. 0.64A
		8 cell max. 0.49A	8 cell max. 0.56A
		9 cell max. 0.43A	9 cell max. 0.5A
		10 cell max. 0.39A	10 cell max. 0.45A
		11 cell max. 0.35A	11 cell max. 0.4A
		12 cell max. 0.32A	12 cell max. 0.37A
		13 cell max. 0.3A	13 cell max. 0.34A
		14 cell max. 0.27A	14 cell max. 0.32A
		15 cell max. 0.24A	15 cell max. 0.3A
		16 cell max. 0.22A	16 cell max. 0.28A

NOTES: - Versions with output voltage >42.4VDC are not within the scope of standard EN 60335-2-29 Ed.4 (ref.CI.10.101).
- For compliance with EN 60601-1 and EN 60950-1 output terminals >60VDC must be inaccessible to operator and may not be interconnected.

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93/42/EEC	EU Directive - General Medical Devices (MDD), Risk Class I Device will from 26.05.2021 be repealed by Regulation (EU) 2017/745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 IT-equipment (ITE), Edition 2.2 (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 2.0A/V, ITE & COMM. Equipm.) (IEC 62368-1:2014, Edition 2.0)
EN 60335-1	EN 60335-1:2012 + /AC:2014 + /A11:2014 Household and similar appliances-General requirements, Edition 5.0 (IEC 60335-1:2010 modified, Edition 5.0) (also IEC 60335-1:2010 modified+ /A1:2013 + /A2:2016, Edition 5.2)
EN 60335-2-29	EN 60335-2-29:2004 + /A2:2010 Household and similar appliances-Requirements for battery chargers, Edition 4.2 (IEC 60335-2-29:2002 + /A1:2004 + /A2:2009, Edition 4.2) (also IEC 60335-2-29:2016, Edition 5.0)
EN 60601-1	EN 60601-1:2006 + /AC:2010+ /A1:2013 Medical electrical equipment, Edition 3.1 (IEC 60601-1:2005 + /A1:2012)

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

EN 60601-1 EN 60601-1:2006 + /AC:2010+ /A1:2013 Medical electrical equipment, Edition 3.1 (IEC 60601-1:2005 + /A1:2012)
EN 60601-1-2 EN 60601-1-2:2015 Medical equipment, EMC -Requirements and tests, Edition 4.0 (IEC 60601-1-2:2014, Edition 4.0)

Electromagnetic Compatibility (to EMC-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 EN55024:2010 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)

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)

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 asprotected 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 2241is 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.accu-24.de.

Signed on behalf of ACCU-24 Batterien und Systeme GmbH:

Gedern, Germany
Place of issue

2020-12-05
Date of issue


Thomas Menzel, Executive Director
Name, function, signature