

Model 3825

7,5 W max out • 90-264 VAC input

- Universal input voltage (90-264VAC)
- Fixed output voltages
- Fixed output cord, Mod. 4P4C (RJ22) or USB (5V)
- 2-pin IEC 60320 C8 connector
- Short circuit proof
- ECO-design compliance:

CoC Tier 2, DoE level VI, CEC, MEPS

- Approvals:

- Medically certified

Safety: EN 60601-1 ed. 3.1

EMC: EN 60601-1-2 ed. 4

- UL approved

- Custom specifications on request:

Output voltage, connectors, cords, logo print, housing/open frame/IP rating and certificates. For more information: [custom design info sheet](#)

Notes:

Plug-in/desktop unit

90-264V

Fixed output cord, modular 4P4C (RJ-22) or USB (5V)

Exchangeable AC and DC plugs available

Order plugs and mains cord separately



Available versions

5V / 1A

9V / 0,8A

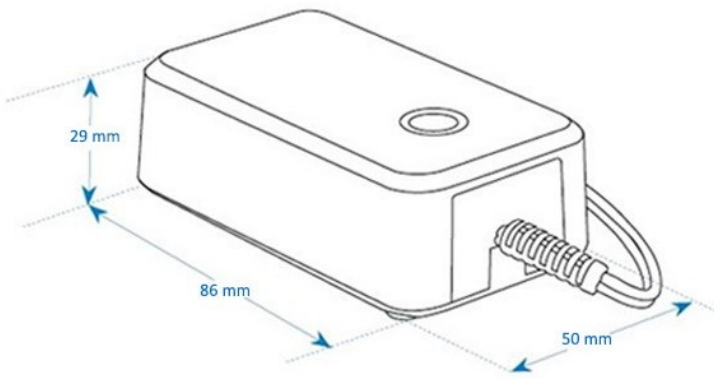
12V / 0,6A

SPECIFICATIONS FOR TYPE 3825:	PSU versions		
	5V	9V	12V
Input voltage:	90 - 264VAC	90 - 264VAC	90 - 264VAC
Line frequency:	47 - 63Hz	47 - 63Hz	47 - 63Hz
Output voltage:	5V ± 5%	9V ± 5%	12V ± 5%
Max output power:	5W	7.2W	7.2W
Min./Max. output current (CC limitation, foldback when $V_{out} < 60\%$):	0A/1.0A (1A-1.3A when $V_{out} > 3V$)	0A/0.8A (0.8A-1.0A when $V_{out} > 6V$)	0A/0.6A (0.6A-0.8A when $V_{out} > 8V$)
Load regulation (0 - 100% load. Measured on pcb):	< 1%	< 1.5%	< 1%
Mains regulation: (Mains variation: 90 - 264V, 100% load)	< 0,5%	< 0,5%	< 0,5%
Switching frequency Ripple (measured on PCB):	< 120mV p-p	< 120mV p-p	< 120mV p-p
Standby power:	Input voltage 230VAC	<0.075W	<0.075W
	Input voltage 115VAC	<0.075W	<0.075W
Average efficiency at 100%,75%, 50% and 25% load	Input voltage 230VAC	>80.5%	>80.5%
	Input voltage 115VAC	>82%	>82%
Efficiency level VI & EU CoC Tier 2:	Yes	Yes	Yes
Switch frequency Typical.:	20-30kHz	20-30kHz	20-30kHz
Overshoot (90 - 10% load variation):	< 200mV	< 250mV	< 300mV
Undershoot (10 - 90% load variation): Measured on pcb	< 250mV	< 250mV	< 300mV
Hold up time@115VAC/60Hz:	> 8ms	> 15ms	> 15ms
Hold up time@230VAC/50Hz:	> 50ms	> 80ms	> 80ms
Temperature range:	*Operating:	- 25 til +40°C	- 25 til +40°C
	*With derating:	+60°C (- 125 mW/°C over 40°C)	+60°C (- 180 mW/°C over 40°C)
	*Storage:	- 25 til +85°C	- 25 til +85°C
Protection:	Short circuit proof, Over temperature protected, Over voltage protection.		
Safety:	EN 60601-1 3.1		
Insulation class :	Class II.		
Insulation voltage; Primary – secondary:	4000VAC / 5700VDC		
EMC standards:	61000 -6-1 & -6-3; 60601-1-2 Ed.4; FCC 15B		
IP-degree	IP4X		
Input terminal	2-pins IEC 60320/C8 connector.		
Output terminals:	Modular 4P4C (RJ22), USB or cable with/without plug.		
Dimensions:	86 x 50 x 29mm		
Weight:	75g (without DC-cable and mains adapter)		

Standard output cordset, fixed cord

Versions	Part no.	Type	AWG	Length (M)	Notes
5V	131551	Female conn	20	1.8	Twin, UL 2468
9V	131627		2 x 18	1.2	
12V	131551		20	1.8	

Technical drawing



EU & UK 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:	Power Supply Unit
Brand(s):	and/or MASCOT (may also carry additional customer name, logo or trade mark)
Type(s)/Model(s)/UDI-DI:	3825 Type name may be followed by: "" denoting 2 MOOP protection "P" denoting 2 MOPP protection "B" denoting 2 MOOP protection, "open frame" for building-in (= PCB only) "BP" denoting 2 MOPP protection, "open frame" for building-in (= PCB only) 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. 0.25 A, 100-240 VAC 50-60 Hz, Class II Output: 5 V version: 4.5 - 5.5 VDC*, max. 1.0 A, max. 5.5 W 6 V version: 5.51 - 6.5 VDC*, max. 1.0 A, max. 6.5 W 7.5 V version: 6.51 - 8.0 VDC*, max. 1.0 A, max. 7.2 W 9 V version: 8.01 - 10.0 VDC*, max. 0.9 A, max. 7.2 W 12 V version: 10.01 - 12.5 VDC*, max. 0.72 A, max. 7.2 W * = a fixed value within the range

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

93/42/EEC	EU Directive - General Medical Devices (MDD), Risk Class I Device <i>will from 26.05.2021 be repealed by "MDR" Regulation (EU) 2017/745</i>
Regulation (EU) 2017/745	EU Medical Devices Regulation (MDR), Risk Class I Device <i>will from 26.05.2021 repeal "MDD" Directive</i>
2014/30/EU	EU Directive - Electromagnetic Compatibility (EMC) <i>recast, repealing Directives 2004/108/EC & 89/336/EEC</i>
2009/125/EC	EU Directive - Energy Related Products, Ecodesign (ERP) <i>recast, repealing Directive 2005/32/EC (EUP)</i>
2015/863/EU	EU Directive - Restriction on use of Hazardous Substances in EEE ("RoHS3") <i>recast, repealing Directives 2002/95/EC, 2008/35/EC & 2011/65/EU</i>

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 MDR/MDD-Directives):

EN 60601-1	EN 60601-1:2006 + /AC:2010 +/A1:2013 (IEC 60601-1:2005 + /A1:2012) (also IEC 60601-1:2005 Amd.2:2020, but not yet harmonized as EN-norm)	Medical electrical equipment, Edition 3.1
EN 60601-1-11	EN 60601-1-11:2010 (IEC 60601-1-11:2010 +/COR1:2011, Ed.1.0) (also IEC 60601-1-11:2015 +/A1:2020, Ed.2.1, but not yet harmonized as EN-norm)	Medical electrical equipment and systems used in the home healthcare environment, Edition 1.0

Electromagnetic Compatibility (to MDR/MDD-Directives):

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
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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 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 2009/278)
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Ecodesign for U.K.:

Draft Regulation only (awaiting implementation)	Draft "Ecodesign for Energy-Related Products (External Power Supplies) Regulations 2020"
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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.
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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
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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

Signed on behalf of Mascot Electronics AS

Fredrikstad, Norway

2021-04-06


Finn-Erik Wailin, Compliance Manager

Place of issue

Date of issue

Name, function, signature