

TDK-Lambda UK Limited
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EU DECLARATION OF CONFORMITY



ZMS100 Series

We, TDK Lambda UK Limited, of Kingsley Avenue, Ilfracombe, Devon, EX34 8ES declare under our sole responsibility that the TDK-Lambda power supplies, as detailed on the attached products covered sheets, comply with the provisions of the following European Directives and are eligible to bear the CE mark:

Low Voltage	Directive 2014/35/EU
EMC	Directive 2014/30/EU
RoHS	Directive 2011/65/EU (as amended by 2015/863)

Assurance of conformance of the described product with the provisions of the stated EC Directive is given through compliance to the following standards:

Electrical Safety (LVD)	EN 62368-1:2014/AC:2015
Electromagnetic Compatibility (EMC)	EN 61000-6-3:2007 + A1:2011 EN 61000-6-2:2005 EN 61204-3:2000 EN 55024:2010 EN 55032:2015
Restriction of Hazardous Substances (RoHS)	EN 63000:2018

Our representative in the EU is TDK-Lambda Germany GmbH, located at Karl-Bold-Str. 40, 77855 Achern, Germany.

Note: The EMC performance of a component power supply will be affected by the final installation, compliance to the stated EMC standards and conformance to the EMC Directive must be confirmed after installation by the final equipment manufacturer. For guidance with respect to test conditions please visit our website at https://emea.lambda.tdk.com/EMC_Guidance or contact your local TDK-Lambda sales office.

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UK DECLARATION OF CONFORMITY



ZMS100 Series

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Electrical Equipment (Safety) Regulations 2016

Electromagnetic Compatibility Regulations 2016

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

Assurance of conformance of the described product with the provisions of the stated UK Regulation is given through compliance to the following standards:

Electrical Safety	EN 62368-1:2014/AC:2015
Electromagnetic Compatibility (EMC)	EN 61000-6-3:2007 + A1:2011 EN 61000-6-2:2005 EN 61204-3:2000 EN 55024:2010 EN 55032:2015
Restriction of Hazardous Substances (RoHS)	EN 63000:2018

Note: The EMC performance of a component power supply will be affected by the final installation, compliance to the stated EMC standards and conformance to the EMC Regulation must be confirmed after installation by the final equipment manufacturer. For guidance with respect to test conditions please visit our website https://emea.lambda.tdk.com/EMC_Guidance or contact your local TDK-Lambda sales office.

ZMS100 Series Products Covered

Unit Nomenclature

ZMS100 models as described below:

Units may be marked with a Product Code: ZMSx where x may be any number of characters. Unit Configuration Code (Description): may be prefixed by NS # followed by / or - (where # may be any number of characters indicating non-safety related model differences). Unit Configuration Code:

Nomenclature for ZMS100

Units may be marked with a Product Code:- ZMS-X/T/J followed by any number of characters indicating non-safety related model differences.

Unit Product Code (Description) may be prefixed by SP and/or NS # followed by / or - (where # may be any number of characters indicating non-safety related model differences).

Where:

-X	=	Output Voltage as detailed in the Output Parameters Tables below.
/T	=	Earth fast-on terminal not fitted
/J	=	JST input and/or output connectors fitted

Input Parameters

Parameter	60601-1	60950-1/61010-1
Nominal input voltage	100 - 240 Vac	100 - 240 Vac
Input voltage range	85 - 264Vac	85 - 264Vac
Input frequency range	47 - 63Hz	47 - 440Hz*
Maximum input current	2.2A rms	2.2A rms

* Units are rated for 47 – 63Hz but will operate up to 440Hz.

All ratings apply for ambient temperatures up to 50°C. From 50 to 70°C the total output power and current ratings are both derated at 2.5% per deg C.

Output Parameters

There are six ZMS100 standard models as shown in the tables below. All of these models may be either forced air or convection cooled. The output parameters are shown in the tables below.

Customer forced air cooled ratings:

Output channel	Vout (V)nom.	Adjustment range (V)	Output current (A)	Maximum power (W)*
Channel 1	12	11.4 - 13.2	8.4	100.8
	15	14.25 - 16.5	6.7	100.5
	24	22.8 - 26.4	4.2	100.8
	28	26.6 – 30.8	3.6	100.8
	36	34.2 - 39.6	2.8	100.8
	48	45.6 - 52.8	2.1	100.8

Convection cooled ratings:

Output channel	Vout (V)nom.	Adjustment range (V)	Output current (A)	Maximum power (W)*
Channel 1	12	11.4 - 13.2	6.7	80.4
	15	14.25 - 16.5	5.4	81
	24	22.8 - 26.4	3.4	81.6
	28	26.6 – 30.8	2.9	81.2
	36	34.2 - 39.6	2.25	81
	48	45.6 - 52.8	1.67	80.2

For 12V and 15V units derate from 100% at 100V to 90% at 90V and to 80% at 85V.
For 24V, 28V, 36V and 48V units derate from 100% at 90V to 90% at 85V.

Variations and limitations of use:

1. Component temperatures must be monitored in the end use application as described in the “Cooling for Unit Temperature Table” below.
2. All ratings apply for ambient temperatures up to 50°C. From 50 to 70°C the total output power and current ratings are both derated at 2.5% per deg C.

ZMS100 Series Signature Page

Name of Authorized Signatory	Christopher Haas
Signature of Authorized Signatory	
Position of Authorized Signatory	Head of Quality & Compliance Europe
Date	23 September 2021
Date when this CE declaration first issued	5 December 2014
Date when this UKCA declaration first issued	6 April 2021
Place where signed	Achern, Germany

This declaration is signed for and on behalf of TDK-Lambda