TDK-Lambda UK Limited
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EU DECLARATION OF CONFORMITY

CE

CUS100ME and CUS150M 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

UKCA

CUS100ME and CUS150M 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.

CUS100ME and CUS150M Series Products Covered

The CUS has two ranges of 100W and 150W each with seven nominal output voltages of 12, 15, 18, 24, 28, 36 and 48 Volt. Each output has a range shown in the table below which is factory configurable only.

CUS models as described below:

Units may be marked with a Product Code: CUSZ-xxVx/yyyy where Z is 100ME or 150M and x may be any number of numbers or left blank to indicate the output voltage. V represents a decimal place when required or can left be left blank. y can be any number of numbers or letters (excluding M, E, U, A, F, B, H) when indicating non-safety related model differences. y can be M, E, U, A, F, B, H when indicating the standard options as listed below.
Unit Product Code may be prefixed by K, SP # and/or NS # followed by / or - (where # may be any number of characters indicating non-safety related model differences).

Unit Product Code:

CUSZ-xxVx/yyyy

Where
Z = 150M for 150W model (May be followed by 'D' for DC input)
100ME for 100W model
xxVx = Channel 1 output voltage from within the output voltage adjustment range from the Output Parameters Table below.
yyyy = Unit options from list of standard unit options below, or non-safety related model differences

/M = Molex connectors
/E = Single fuse in the live line
/U = U chassis
/A = Cover and U chassis
/F = Top fan, cover and U chassis (CUS150M model only)
/B = Baseplate
/H = alternate link wire and discharge resistors (60335-1 compliant, 60950-1 & 62368-1 approved only)

Non standards

KCUSZ-xx-yyyy/H

Where:

Z = 150M for 150W model (May be followed by 'D' for DC input)
100ME for 100W model
xxVx = Channel 1 output voltage from within the output voltage adjustment range from the Output Parameters Table below.
yyyy = Unit options from list of standard unit options below, or non-safety related model differences

/M = Molex connectors
/E = Single fuse in the live line
/U = U chassis
/A = Cover and U chassis
/F = Top fan, cover and U chassis (CUS150M model only)
/B = Baseplate

Followed by

/H = alternate link wire and discharge resistors (60335-1 compliant, 60950-1 and 62368-1 approved only)

Input Parameters

Standard	60601-1	60950-1/62368-1	60950-1/62368-1/60601-1
Nominal input voltage	100 - 240Vac	100 - 240Vac	133 - 318Vdc
Input voltage range	85 - 264Vac	85 - 264Vac	120 - 350Vdc
Input frequency range	47 - 63Hz	47 - 440Hz	DC
Maximum input current	2.2A rms	2.2A rms	1.8A

All ratings apply for ambient temperatures up to 50°C. (See Variations and Limitations below)
Output power is reduced linearly by 10% for input voltages from 90 to 85Vac

Output Parameters

There are seven CUS150M and CUS100ME standard models as shown in the tables below. All of these models may be fan (CUS150M model only), forced air, conduction or convection cooled. The output parameters are shown in the tables below.
Outputs are not user adjustable but can be factory set.

CUS150M

	Vout	*Fan	Max	Max		*Fan Output ratings		
Model	Range (V)	Vnom	(V)	Iout (A)	Pout (W)		Inom (A)	Pnom (W)
12	12-13.2	11.6	12.5	150		0.5	5.8	
15	15-16.5	9.8	10	150		0.5	4.9	
18	18-19.8		11.6	8.33	150		0.5	5.8
24	24-26.4	11.6	6.25	150		0.5	5.8	
28	28-30.8	10.8	5.4	150		0.5	5.4	
36	36-39.6	11.6	4.2	150		0.5	5.8	
48	48-50	11.6	3.125		150		0.5	5.8

* Fan output tracks Vout Range

Variation and Limitations:

Customer Forced Air Cooling max ambient 85°C (note 1)
Convection and conduction/cold plate Cooling (U chassis with lid-Option A) max ambient 75°C (note 1)
Convection and conduction/cold plate Cooling (U chassis and open frame) max ambient 80°C (note 1)
Fan supplied ratings/Option F max ambient 70°C, from 50°C to 70°C the output power is de-rated by 0.5°C per watt
Note 1: Maximum output power and current ratings are dependent on the ambient used in the end equipment.

CUS100M

	Vout	Max	Max
Model	Range (V)	Iout (A)	Pout (W)
12	12-13.2	8.33	100
15	15-16.5	6.66	100
18	18-19.8	5.55	100
24	24-26.4	4.16	100
28	28-30.8	3.57	100
36	36-39.6	2.77	100
48	48-50	2.08	100

Variation and Limitations:

Customer Forced Air Cooling max ambient 85°C (note 1)
Convection and conduction/cold plate Cooling (U chassis with lid-Option A) max ambient 75°C (note 1)
Convection and conduction/cold plate Cooling (U chassis and open frame) max ambient 80°C (note 1)
Note 1: Maximum output power and current ratings are dependent on the ambient used in the end equipment.

CUS100ME and CUS150M 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	9 May 2017
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