



**TDK-Lambda UK Limited**  
Kingsley Avenue, Ilfracombe  
Devon, EX34 8ES, United Kingdom  
Tel: +44 (0) 1271 856600  
Fax: +44 (0) 1271 864894  
www.uk.tdk-lambda.com

## EU DECLARATION OF CONFORMITY

### 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 CUS100ME and CUS150M series of power supplies, as detailed on the attached products covered sheets, complies with the provisions of the following European Directives and is eligible to bear the CE mark:

Low Voltage Directive 2014/35/EU

EMC Directive 2014/30/EU

RoHS 2 Directive 2011/65/EU

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) EN62368-1:2014 + AC: 2017 + A11:2017

Electromagnetic Compatibility (EMC) EN61000-6-3:2007 + A1:2011  
EN61000-6-2:2005  
EN61204-3:2001  
EN55024:2010  
EN55032:2015

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.tdk-lambda.com/EMC\\_Guidance](https://emea.tdk-lambda.com/EMC_Guidance) or contact your local TDK-Lambda sales office.

Name of Authorized Signatory	Christopher Haas
Signature of Authorized Signatory	
Position of Authorized Signatory	Technical & Quality Manager, TDK-Lambda Germany GmbH
Date	07 <sup>th</sup> January 2019
Date when first CE marked	9 <sup>th</sup> May 2017
Place where signed	Achern, Germany

## 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

Model	Vout Range (V)	*Fan Vnom (V)	Max Iout (A)	Max Pout (W)	*Fan Inom (A)	*Fan Output ratings 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

Model	Vout Range (V)	Max Iout (A)	Max 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.