



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

## DECLARATION OF CONFORMITY ZMS100 SERIES

We, TDK-Lambda UK Limited, of Kingsley Avenue, Ilfracombe, Devon, EX34 8ES declare under our sole responsibility that the ZMS100 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                      2006/95/EC

This declaration incorporates conformity with Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

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)                      EN60950-1:2006 + A2:2013

|                                   |  |
|-----------------------------------|--|
| Name of Authorized Signatory      | Martin Southam   |
| Signature of Authorized Signatory |  |
| Position of Authorized Signatory  | Marketing Director, TDK-Lambda EMEA  |
| Date                              | 05 December 2014   |
| Date series first CE marked       | 05 December 2014   |
| Place where signed                | Ilfracombe, Devon, England   |

## ZMS100 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 or CUS100MA

Units may be marked with a Product Code:- ZMS-X/T/J or CUS100MA-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 five 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              |

\* From 90Vac to 85Vac input de-rate output power linearly from 100W to 90W

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               |

\* From 90Vac to 85Vac input de-rate output power linearly from 80W to 72W.

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.

