

TDK-Lambda UK Limited
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EU DECLARATION OF CONFORMITY



XMS 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



XMS 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.

XMS Series Products Covered

Model Differences –

XMS350 or XMS500 series (may also be marked as XMS-350 or XMS-500) as described below:

Units may be marked with a Product Code: Xy where y may be any number of characters.

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

Unit Configuration (Description)

XMSxy-a-bc-defghijklm

where:

- x =
 - 350 for 350W model
 - 500 for 500W model
 - 500A for enhanced 500W model (less than 1W inhibited)
 - 500P for 576W peak power models (36V, 40V and 48V output models only)
 - 500AP for enhanced 500W model with 576W peak power (36V, 40V and 48V output models only)
- y =
 - Blank for Class I
 - D for Class II
- a = Channel 1 Output Voltage (see Ch1 in the table below, adjustment range column).
- b = Standby Output Voltage: see standby voltage in table below
 - N for no supply
 - 5 for 5 volt
 - 12 for 12 volt
- c = Standby Output Current†:
 - C for 0.5A
 - M for 1.0A
 - H for 2.0A
 - N for no supply or 0 amps output
- d = Fan Supply†:
 - N for no fan supply (customer cooling)
 - N1 for 24V fan supply (customer cooling)
 - N2 for 12V variable supply
 - N3 for 12V fixed supply
 - KF for non-standard top fan
 - TF for top-fan
- e =
 - U for non-standard U chassis
 - P for perforated frame
 - N for Open Frame
 - C for custom chassis/covers for non-standard models
 - S for standard U chassis
 - B for standard U chassis with perforated cover
- f = Touch (Enclosure) current:
 - B for <100uA
 - T for <75uA
- g = Earth leakage current:
 - D for Class II (no Earth)
 - L for <300uA
 - R for <150uA
 - T for <100uA

- h = E or In for inhibit
T or En for enable
- i = A for AC OK option
N for no AC OK option
- j = Blank for dual fuses fitted
FL for single fuse fitted in the Live line

klm = Blank for standard output settings
May be three numbers from 0 to 9 (preceded by -) which denotes various output voltage/current settings within the specified ranges of each output for a particular unit. (may define non-safety related parameters/feature, e.g. reduced primary current limit, reduced OVP)

Input Parameters

Nominal input voltage 100 - 240 Vac
Input voltage range 90 - 264 Vac
Input frequency range 47 - 63 Hz
Maximum input current 7A (5.3A*) rms
* Input for 350W models.
All ratings apply for ambient temperatures up to 50°C.

Output Parameters

†Output ratings are in accordance with the following table:

Standard models:

Output Channel	Voltage Designation	Vout nom.(V)	Adjustment Range (V)	Output Current (A)	Output Power (W)
CH1 (500W)	12	12	11.6 - 13.2	41.6	500
	24	24	23.8 - 25.2	20.8	500
	36	36	35.4 - 37.8	13.8(16*)	500(576*)
	40	40	38 - 42	12.5(15.16*)	500(576*)
	48	48	47-50	10.4(12*)	500(576*)
CH1 (350W)	24	24	23.8 - 25.2	14.6	350
	Standby Option	5	5 - 5.5	0.5	2.75
Fan Supply	5	5	5 - 5.5	2.0	11.0
	12	12	12-13.2	1	13.2
	N	10	5 - 15	0	0
	N1	24	Fixed	0.2	4.8
Fan Supply	N2	12	6-12	-	3.0
	N3	12	Fixed	0.25	3.0

*576W peak power up to 2 minutes with 500Wrms power using the following formula:

$$500Wrms = ((\text{peakpower}^2 \times T1 + \text{reducedpower}^2 \times T2) / (T1 + T2))^{1/2}$$

Where T1 = peak power time on in seconds
T2 = reduced power time on in seconds

Non-Standard Models:

X00011#	XMS350-24-NN-N1CBLEN	Customer specific chassis
X00023#	XMS500D-24.5-5C-KFCBDEN	Customer specific top fan/chassis model
X00073#	XMS500-24-NN-NCBRInA	Customer specific chassis/cover

Where # can be any letter denoting non-safety related changes.

Output Limitations:

The following outputs are ES1: 12, 24, 36, 40V

The following outputs are ES2: 48V

XMS 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	2 November 2015
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