



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX SIQ 14.0006X** issue No.: **0** Certificate history: _____

Status: **Current**

Date of Issue: **2014-11-05** Page 1 of 3

Applicant: **TDK-Lambda UK Ltd**
Kingsley Avenue, Ilfracombe,
Devon, EX34 8ES
United Kingdom

Electrical Apparatus: **Power supply, types DRF480-24-1/HL-xyz and DRF480-24-1/HLIVS-xyz**
Optional accessory:


Type of Protection: **Ex nA nC**

Marking: **Ex nA nC IIC T3 Gc**

Approved for issue on behalf of the IECEx
Certification Body: **Igor Likar**

Position: **Managing Director**

Signature:
(for printed version)



2014-11-05

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Slovenian Institute of Quality and Metrology (SIQ)
Trzaska cesta 2
SI-1000 Ljubljana
Slovenia





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Manufacturer: **TDK-Lambda UK Ltd**
Kingsley Avenue, Ilfracombe,
Devon, EX34 8ES
United Kingdom

Additional Manufacturing location
(s):

TDK-Lambda Malaysia
Sdn. Bhd.
Lot 2&3
Kawasan Perindustrian
Bandar Baru Jaya Gading
26070 Kuantan, Pahang Darul
Makmur
Malaysia

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition: 6.0

IEC 60079-15 : 2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition: 4

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:
[SI/SIQ/ExTR14.0006/00](#)

Quality Assessment Report:

[SI/SIQ/QAR14.0001/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Power supply, types DRF480-24-1/HL-xyz⁽¹⁾ and DRF480-24-1/HLIVS-xyz⁽¹⁾, manufactured by TDK-Lambda UK is an AC/DC converter and AC/DC or DC/DC converter, respectively. It is installed in metal enclosure with degree of ingress protection IP20. Product is designed in type of protection Ex nA nC. Power supply has external terminals for connections and shall be installed in appropriate enclosure with degree of ingress protection at least IP54 according to IEC 60079-15.

⁽¹⁾ Suffix -xyz can be alphanumeric characters or blank and is non explosion protection related information.

Allowed ambient temperature is from -25°C to +70°C⁽²⁾.

⁽²⁾ For ambient temperature from +60°C to +70°C linear derate from 100% load at +60°C to 75% load at +70°C shall be considered.

Electrical ratings:

DRF480-24-1/HL-xyz

Input: 100 V – 240 V a.c., 50 Hz / 60 Hz, 5.4 A

Output: 24 V – 28 V d.c., 20 A – 15.4 A, 480 W

DRF480-24-1/HLIVS-xyz

Input: 100 V – 240 V a.c., 50 Hz / 60 Hz, 5.4 A

108 V – 145 V d.c, 5.4 A

Output: 24 V d.c., 20 A, 480 W

CONDITIONS OF CERTIFICATION: YES as shown below:

- Power supply shall be installed in appropriate IP54 enclosure according to IEC 60079-15.
- Ambient temperature for power supply in above mentioned enclosure shall not exceed +70°C (derating shall be considered).
- The metal parts of the equipment shall be earthed.
- Adjustment of the potentiometers is allowed only when explosive atmosphere is not present.