Installation Manual for D14XX-DR Series

12V Desktop Power Supply

Product part numbers

D1410-DR	10A desktop power supply
D1420-DR	20A desktop power supply

Dycon Ltd
Tel: +44 (0)1443 471 060 - Fax: +44 (0)1443 479 374
Cwm Cynon Business Park – Mountain Ash – CF45 4ER - UK
www.dyconsecurity.com - info@dyconsecurity.com

1 Package Contents

- D14XX-DR 12V desktop power supply unit
- Mains cable
- 8 x M4 x 8mm pan pozi, full nut and shake-proof washer
- 4 x M6 pan pozi, cage nut and plastic washer
- Dycon warranty statement
- D14XX-R Series manual
- 2 x 19” rack mounting fixings

2 Description

The D14XX-DR Series is a highly efficient switched mode power supply that reduces rack cabinet heat and user running costs. The unit is designed for simplicity and true “Plug and Play” system integration. The unit will simultaneously supply 12 watts to each of its 10 or 20 outputs when connected to powered devices and individual ports are over-current protected according to the class of the connected device.

2.1 Features

- Power supply better than 85% efficient at full load
- Genuine full power available simultaneously across all outputs
- 10 outputs on model D1410-DR – 20 outputs on model D1420-DR
- 2U 19 inch rack mounted and desk mounted versions
- Full thermal and over-current protection
- Power outputs transient protected, power outputs each individually fused with LED indication of faults

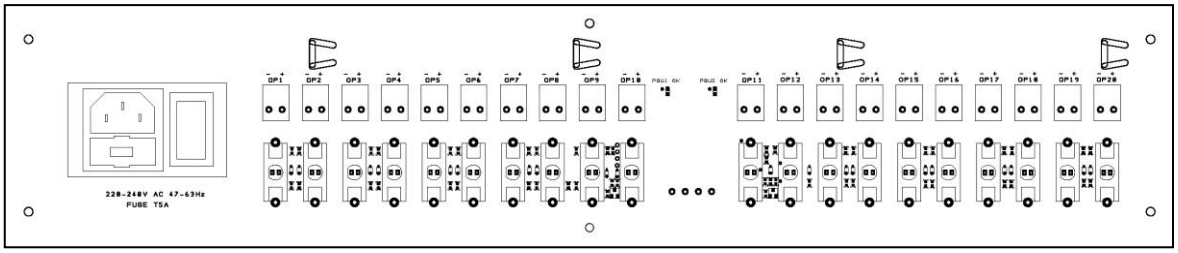
3 Installation

D1420-DR – 20 outputs – front plate

3.1 Power Cable Connection

The AC power cable is connected to the switched IEC power inlet located at the rear of the Dycon D14XX-DR Series power supply unit. The power cord must be plugged into an earthed 230V nominal power outlet, with a minimum current rating of 3A.

3.2 Output Connection



D1420-DR – 20 outputs – back plate

In case of fuse failure, a LED will light up and indicate which fuse has failed.

3.3 LED Indicators

INDICATORS	1 - 10	11 - 20	Mains
GREEN	12V on		On
RED	Power fail – to see which output failed, see rear of the panel. Faulty outputs are indicated by an individual red LED		

4 Technical Specifications

Part Number	D1410-DR	D1420-DR
Power Available	Max. 120 watts	Max. 240 watts
Max. Input Current at 230V	0.65A	1.3A
AC Power Supply Voltage	207V to 253V	
AC Input	49Hz to 61Hz	
Outputs	10 12v nominal max. 1A	20 12V nominal max. 1A
Fuse Rating	Time delay T3.15A 20mm fuse, 250 V	
Operating Temperature Range	-10°C to +40°C	
Desktop Box Size (L x W x D)	444mm x 285mm x 90mm (488mm x 285mm x 90mm with fixings for 19” rack)	
Weight	4.9 kg (5.1 kg with fixings)	

5 Safety and environmental Information

5.1 Equipment Modifications

This equipment must be installed and used in strict accordance with the instructions given in this manual. This equipment contains no user-serviceable components. Unauthorised changes or modifications to this equipment will invalidate all applicable regulatory certifications and approvals.

Every care has been taken in the preparation of this manual. Please inform us of any inaccuracy or omission. Dycon Ltd cannot be held responsible for any technical or typographical errors and reserves the right to make changes to the product and manuals without prior notice.

Dycon Ltd makes no warranty of any kind with regard to the material contained within this document including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Dycon Ltd shall not be liable nor responsible for incidental or consequential damages in connection with the furnishing, performance or use of this material.

5.2 Power Cord Requirements

Power cords must meet the requirements for the country they are used in.

- The Dycon D14XX-DR Series power supply must have access to a power outlet. Disconnect the power cord from the outlet, to eliminate power from the device.
- The flexible cord that connects to the Dycon D14XX-DR Series power supply must have a configuration to connect with an EN60320/IEC320 inlet connector.
- According to the EN60950/IEC 950 specifications, this device functions under Safety Extra Low Voltage (SELV) conditions. The conditions are true if the equipment and the connected device function under SELV conditions.
- The Dycon D14XX-DR Series power supplies meet EN60950 safety standards (displayed in the back of the product).

Europe and South America

Switzerland	The supply plug must comply with SEV/ASE 1011.
Denmark	The supply plug must comply with section 107-2-D1, standard DK2-1a or DK2-5a.
United Kingdom	The Dycon D14XX-DR Series power supply is covered by General Approval (section 1.16.060), NS/G/12345/J100003, for indirect connection to a public telecommunication system.
France/Peru	IT equipment cannot power this device. In the case of an IT-powered device, the unit needs to be powered by 230V through an isolation transformer with a ratio of 1:1 and the secondary connection (Neutral) that is properly grounded.

5.3 Precautions

Please read the following carefully before installing and connecting the system to a power source.

1. Only qualified and trained service personnel (in accordance with IEC 60950 and AS/NZS 3260) should install, replace, or service the equipment. Install the system in accordance with country or national codes.

2. The building where this product is used, requires a fuse or circuit breaker no larger than 10A, 230 VAC. The building facility must protect the Dycon D14XX-DR Series power supply from over-current or short-circuits.
3. Read the Hardware Setup procedure before connecting the Dycon D14XX-DR Series power supply to a power source (this includes power cord requirements).
4. Do not operate the product in an area that exceeds the maximum recommended ambient temperature of 40°C to avoid overheating the Dycon D14XX-DR Series power supply. Allow at least between 7.5 and 10.5cm clearance around all ventilation openings.
5. Do not stack the chassis on any other equipment to support its weight. Shelf-mounted equipment requires a stable and durable surface. Do not push or pull on the Dycon D14XX-DR Series power supply while installing.
6. Do not work on the Dycon D144XX-DR Series equipment, connect or disconnect cables when there is lightning.
7. The AC plug/socket combination must be accessible at all times, as it is the main disconnection device to the product.
8. Follow appropriate national laws and regulations when discarding this product.

5.4 RoHS

This product complies with the European RoHS directive 2002/95/EC.

5.5 WEEE

This product complies with the WEEE (Waste Electrical and Electronic Equipment) directive.

5.6 Electromagnetic Compatibility (EMC)

This digital equipment fulfils the requirements for radiated emission according to limit B of EN55022/2010, and the requirements for immunity according to EN55024/2010 residential, commercial and light industry.

6 Support / Trouble-shooting

In case you require any technical assistance, please contact Dycon Technical Support on +44 (0)1443 471 064 or email technical@dyconsecurity.com.

From our website www.dyconsecurity.com, you can download the product datasheet and user manual.