

D2401-AA



24VDC Switched-Mode Power Supply for Magnetic Fire Door Retainers and General 24VDC Applications



- 24VDC 1A nominal output
- Attractive, tough steel housing
- Status LED
- Opto-Relay output for remote signalling of faults
- Anti-surge protection

The Dycon D2401-AA power supply unit is a 24VDC switched-mode 1A power supply specially designed to power magnetic fire alarm door retainers and general 24 Volt DC applications. It is supplied in a very compact, attractive, but tough, steel housing with an externally visible status LED. The 24VDC output is designed for the highly inductive loads that magnetic door retainers present, eliminating the need for additional control relays and reducing the chance of an 'electrical spike' causing problems, which is a frequent cause of personnel delays and expensive engineer call outs. In addition, it has a normally closed (NC) volt-free, opto-relay output for remotely signalling its status and serviceability. This output can be used to indicate problems either locally or remotely to a Fire Alarm panel or to a suitable signalling device. The D2401 is protected by Dycon's intelligent electronic fuse technology with automatic reset to reduce system downtime and it features Dycon's unique protective technology, includes intelligent and capacitive load switching, surge protection and snubbing. The D2401-AA can handle up to 8 double doors with 16 magnetic door retainers, based on 50 mA each.

Power Solution for Magnetic Fire Door Retainers

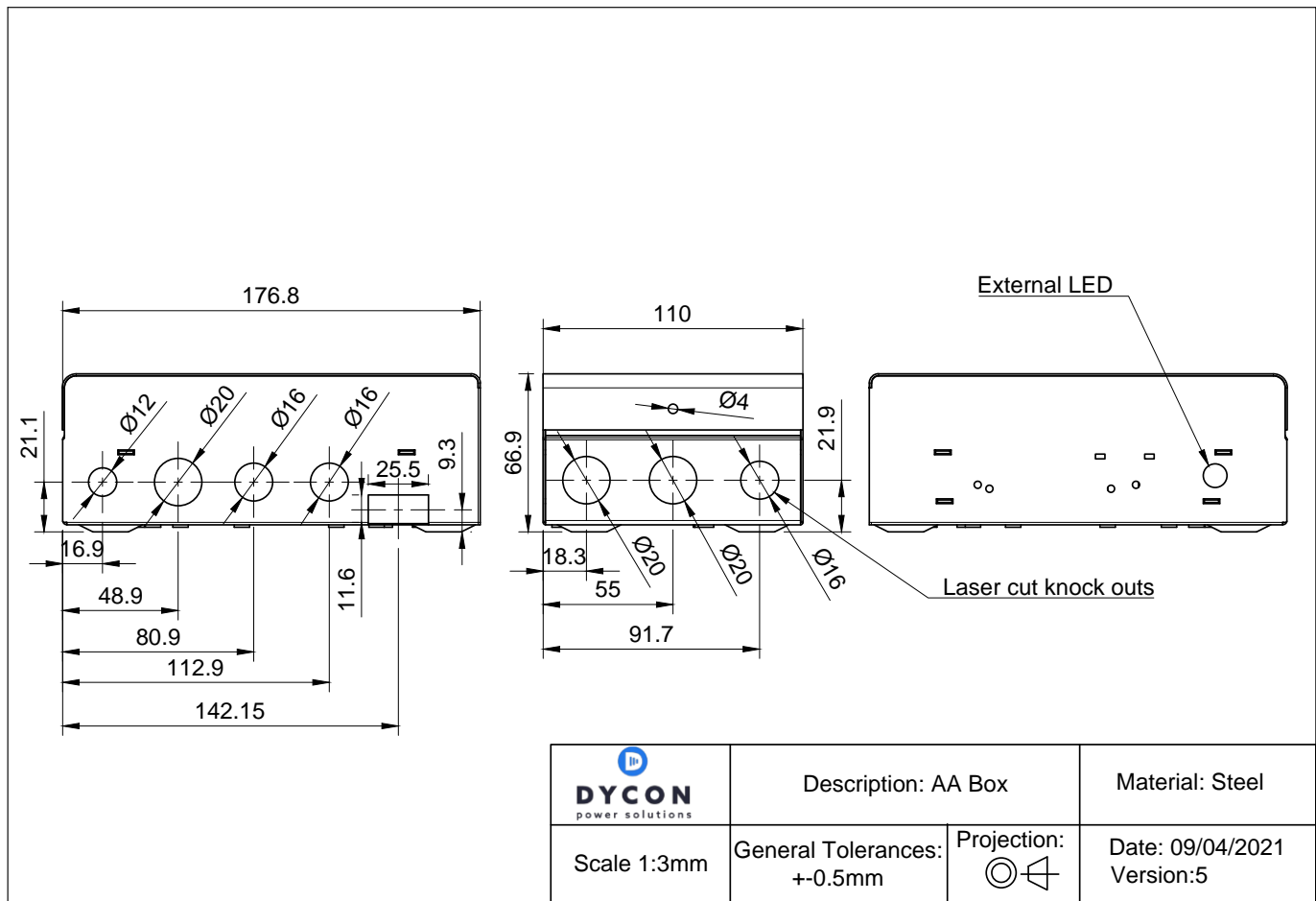
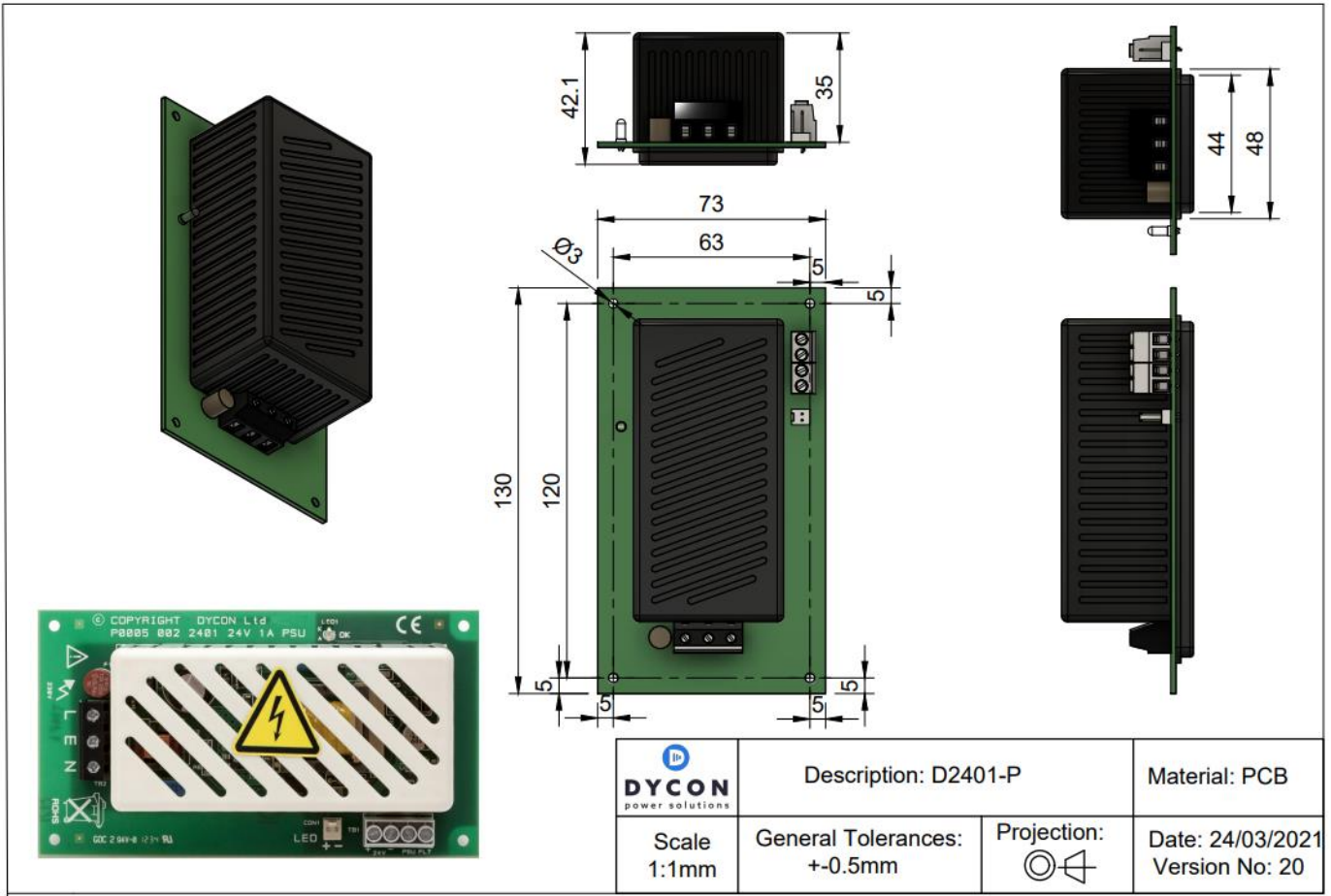
24VDC 1A Switched-Mode Power Solutions

Specification

Power Supply Classification	Type A, Ungraded, Environmental Class 2
Voltage Input	195VAC - 265VAC@ 50-60Hz
AC Input Fuse	T3.15 Ampere non-replaceable
Output Voltage with AC Power	24VDC nominal;
Output Ripple	< 100mV peak-to-peak @full rated output
Max. Output Current at Full Load	1 Ampere
AC Fault Will Indicate	If the input voltage falls below 175VAC \pm 25V
Visible Indication	1 x green LED visible from outside the box, power ok
Fault Opto-Relay Rating	60V @100mA, contact resistance of 16 ohms
Automatic Output reset time	10mS to 18s (depends on type and duration of fault)
Construction	1.5mm mild steel, tough, powder-coated, spray paint, heat-treated to provide a durable, wipe-clean surface.
Standard Paint Colour	White (RAL9003)
Operating temperature	-10°C to +50°C
Humidity	95% non-condensing

- **Full 24VDC 1A output**
- **When used for powering for fire system magnetic door retainers each requiring 24VDC 50mA, a single D2401-AA can drive 16 units or 8 x double doors**
- **Ample provision for cabling**
- **Fitted with 12mm, 16mm & 20mm knockouts, plus a 25 x 12mm trunking knockout**
- **Hinged/pivoted lid, secured by a single screw for faster fitting and servicing**
- **Rounded corners to avoid dust traps and dirt build-ups**
- **Tough, powder coated, 1.5 mm steel construction, painted white (RAL9003)**
- **Can be fitted horizontally or vertically**
- **Easily visible, green LED to indicate mains/operational status**
- **D2401-P, PCB-only version, for inclusion in 3rd party housings or devices**
- **Customised versions can be supplied subject to a minimum order quantity**

Note: If the system layout requires separate cable runs to reach spread-out areas of the building you can choose a D2401-A-DFX-OP version. This uses the same PCB but is supplied in a larger, standard Dycon A box and fitted with a 4-way or 8-way output splitter to enable up to 4 separate cable runs to be connected to a single unit.





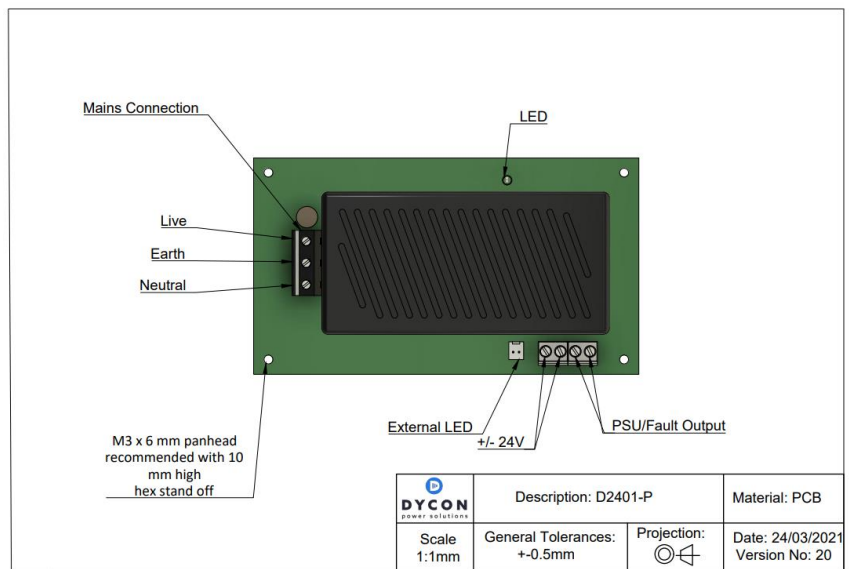
Attractive design with highly visible LED indicator



Plenty of space for terminations and cables



Easy-to-read specification & safety data label on lid



Housing Type	Part No.	Housing Size H x W X D (in mm)	Weight (in Kgs)
AA-box with PSU	D2401-AA	178 x 110 x 68	1.09
AA box only	AA box	178 x 110 x 68	0.90
PCB only	D2401-P	73 x 130 x 42	0.19

Dycon Power Solutions Ltd
Unit A, Cwm Cynon Business Park, Mountain Ash
CF45 4ER, United Kingdom.

For more information about the Dycon products:
website: www.dyconpower.com
email: sales@dyconpower.com

Or to discuss your specific needs:
+44 (0)1443 471 900



Dycon leads the security and associated power supply markets, with UK design and manufacture of advanced power products; engineered to provide high quality, cost-effective solutions to meet current regulations and the specific needs of system integrators and end-users.

Designed and manufactured in the UK

D2401-AA data sheet 15092021 V9