

# D244X-series



## Switched Mode Power Supplies For Access Control Applications



Specially designed for access control applications using Dycon's unique protective technology, these 24Vdc switched-mode power supplies units feature a switchable ON/OFF output capable of switching highly inductive loads (door strikes and locks) and removing the chance of inductive kickback blowing a fuse and causing a door to remain closed or open, a frequent cause of personnel delays and expensive engineer call outs. The range also features intelligent and capacitive load switching surge protection and snubbing and all include a jumper for simple selection of inverted or normal power switching input operation. Additionally, they have three, volt-free, outputs for remotely signalling the status and serviceability of the unit. These outputs can be used to indicate problems either locally or remotely via a suitable signalling device. A Four x LED Matrix provides detailed information of up to ten different faults and indications making fault finding quicker and easier.



**DYCON**  
power solutions

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## 24VDC Switched-Mode Access Control Power Solutions

### Specification

Power Supply Classification	Type A, Ungraded, Environmental Class 2
Voltage Input	195Vac - 265Vac @ 50-60Hz
AC Input Fuse	D2441 - 2A, D2443- 3.15A, D2445- 3.15A
Output Voltage with AC Power	D2441/3/5 Max. 28Vdc, min. 20.0Vdc, 27.4Vdc with AC present
Output Ripple	D2441/3/5 = < 0.6V peak-to-peak @full rated output
Max. Output Current at Full Load	D2441 - 1A; D2443 - 3A; D2445 -5A
Battery Charging Current at Full Load	300mA max @27.4Vdc float charge current
Power Consumption at Full Load	D2441 - 33W, D2443- 97W, D2445- 162W
Fault Relay Rating	60V @ 100mA, 14ohms closed
Efficiency	>80% at full load
Maximum overvoltage cut-out	29Vdc $\pm$ 3%,
Low battery fault	22Vdc $\pm$ 3%
Low-voltage power output fault	24.6Vdc $\pm$ 3%
Battery deep discharge voltage limit	20V $\pm$ 3%
Automatic output reset time <sup>1</sup>	10mS to 18s
Operating temperature range and humidity	-10°C to +50°C 95% non-condensing
PCB Size	D2441-108 x 140 x38; D2443-122 x 140 x38; D2445-123 x 160 x 38
Weight (PCB only (kg))	0.2kg
Weight B & C Housings (kg)	B – 3.2kg; C – 4.3Kg

Product Description	PCB only	A box (mm) (235 x 170 x 85)	B box (mm) (260 x 320 x 90)	C box (mm) (345 x 430 x 90)
1 Amp - 24Vdc - with battery charging	D2441-P	Not available	D2441-B	D2441-C
3 Amp - 24Vdc - with battery charging	D2443-P	Not available	D2443-B	D2443-C
5 Amp - 24Vdc - with battery charging	D2445-P	Not available	D2445-B	D2445-C

#### Dycon Power Solutions Ltd

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#### For more information about the Dycon range of power products:

[www.dyconpower.com](http://www.dyconpower.com)

#### Or to discuss your specific needs:

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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