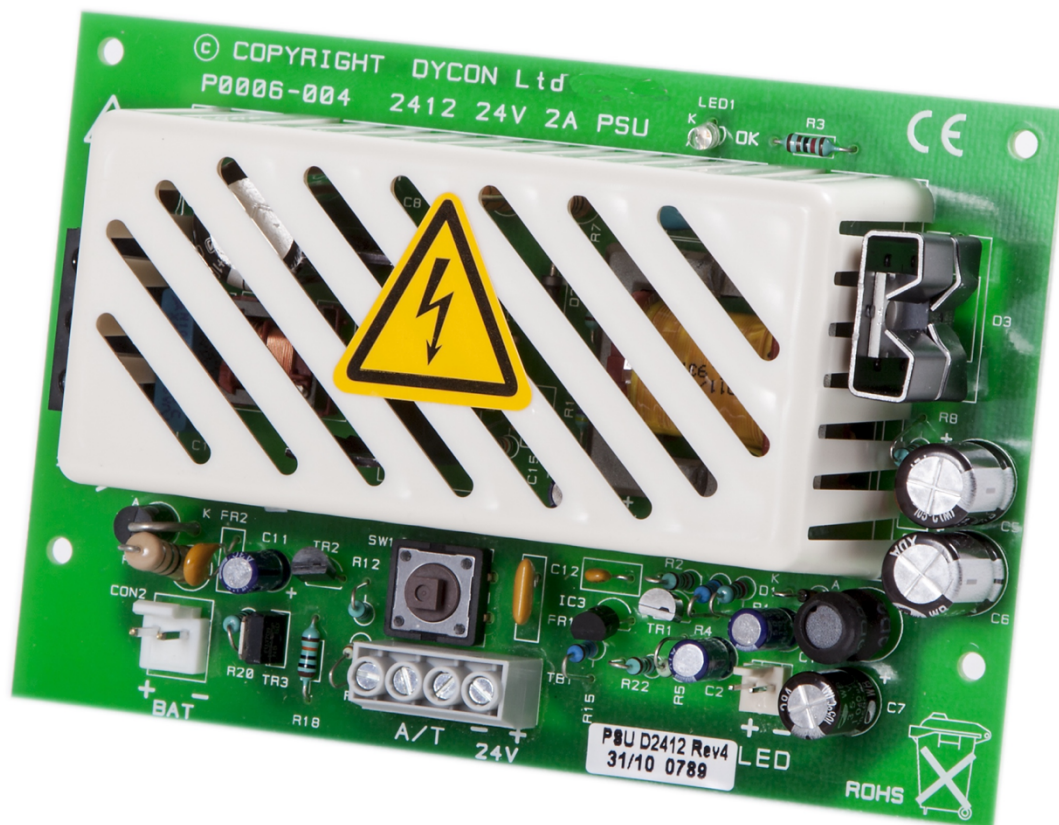


# Dycon 24VDC Range



## D2412, D2413

24VDC 2A and 3A Switched-Mode Power Supplies with Battery Back-Up, Ideal for Powering Magnetic and Electric Door Releases & General 24VDC Applications



- 2A & 3A versions
- Standby-battery charging capability
- 300mA battery charging current
- Battery deep-discharge cut-off
- On-board anti-tamper switch
- Single status LED

Dycon D2412 and D2413 are 24VDC switched-mode 2A and 3A power supplies, ideally suited for use with access control applications and general power applications. They have full standby battery charging capability designed to be used with two 12VDC sealed lead acid batteries connected in series. The batteries are protected by an automatic deep-discharge cut-off. Both models use Dycon's unique protective technology featuring intelligent and capacitive load switching surge protection and 'snubbing,' eliminating the chance of an 'electrical spike' causing a door to remain closed or open, a frequent cause of personnel delays and expensive engineer call outs. These units are also protected by Dycon's unique intelligent electronic fuse technology, with automatic reset to reduce system downtime.



**DYCON**  
power solutions

# 24VDC Power Solutions

24VDC Switched-Mode Power Solutions with battery back-up, ideally suited for powering magnetic or electric door releases and general 24VDC applications

## 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	27.4-27.6VDC
Output Ripple	< 100mV peak-to-peak @full rated output
AC Fault Will indicate	If voltage falls below 175VAC± 25V
Max. Output Current at Full Load	D2412 2 Ampere; D2413 3 Ampere + 300mA battery charging
Battery Types Supported	12VDC VRLA batteries, 2 x 2.1Ah; 2 x 7Ah; 2 x 17Ah; 2 x 26Ah
Battery Connector	Single connector, battery cable set 300mm with 4.8mm spade connectors included
Battery Charging Current at Full Load	300mA max @27.4VDC float charge current
Low-voltage Power Output Fault Indication	175VAC± 25VAC. Green status LED goes out
Anti-tamper Provision	Spring operated, PCB mounted ,anti-tamper switch
LED indication	Single green OK status LED and 1 x PCB connector for remote LED
Automatic output reset time	10mS to 18s (depends on type and duration of fault)
Operating temperature	-10°C to +50°C
Humidity	95% non-condensing

Housing Type	2 Ampere version Part No.	3 Ampere version Part No.	Maximum space available for batteries	Housing Size H x W X D mm	Housing Weight Kgs
B-box	D2412-B	D2413-B	2 x 7Ah	260 x 320 x 90	1.90
XLB-box	D2412-XLB	D2413-XLB	2 x 7Ah or 2 x 17Ah	295 x 415 x 90	2.20
C-box	D2412-C	D2413-C	2 x 7Ah or 2 x 17Ah	345 x 430 x 90	3.30
E-box	D2412-E	D2413-E	2 x 17Ah	405 x 500 x 90	5.80
W-box	D2412-W	D2413-W	2 x 2.1Ah	245 x 195 x 90	1.45
PCB-only	D2412-P	D2413-P		D2412-P = 130 x 87 x 42 D2413-P = 140 x 106 x 41	D2412-P = 0.19kg D2413-P = 0.21kg

### Dycon Power Solutions Ltd

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#### For more information about the Dycon products:

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#### 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.

D2412/3 data sheet 19052021 V15