

# D1521/D1522



EN50131/PD6662 Security Grade 2, Switched-Mode, 1A & 2A power supplies for intrusion systems



- 12VDC 1A & 2A power supplies with battery charging
- 250mA battery charging with full protection
- Micro-Processor monitored and controlled
- 2 x voltage free fault outputs
- 2 x external fault LED's
- Self-resetting electronic fuses

Dycon D1521 & D1522 are 1A & 2A, EN-Compliant, switched-mode power supplies which satisfy the requirements of EN50131-1 and PD6662 to Security Grade 2. These units have two voltage free outputs and LED's are provided to monitor for External Power Supply (EPS) faults and for Auxiliary Power Supply (APS) faults. The maximum current available from the 'Power Output' terminals depends on the type of power supply and the batteries connected, both the D1521 and D1522 allow 2 batteries to be connected. All batteries are monitored for low-voltage, disconnection and load test. The batteries and electronics are protected against reverse-polarity battery connection by self-resetting electronic fuses and are also protected against deep discharge which will activate if the voltage drops below 10.5VDC.



**DYCON**  
power solutions

# EN50131/PD6662 Graded 12VDC

EN50131/PD6662-Compliant 12VDC Security Grade 2 power-supplies with 2 fault outputs, battery charging, electronic fuses & low voltage battery cut off protection

## Specifications

Power Supply	Type A; Security Grade 2; Environmental Class 2
Mains Voltage Input	230Vac +10% -15%; 50Hz ± 15%
AC Input Fuse	20mm x 5mm, 250V; D1521-230V=1A; D1522-230V=3A.
Output Voltage with AC Power	Maximum 13.7VDC nominal
Maximum Output Ripple	< 50mV peak-to-peak at full rated output
Maximum Output Current at Full Load	D1521 =1A; D1522=2A
Battery Recharge Time	< 72 hours
Fault outputs	2 x Open collectors, Normally off, 100mA at 50Volt
Output types	APS and EPS fault
Battery charging	250 mA max.
Battery cable (included)	30cm with 2 x T1 4.85mm spade connectors as standard
Low Battery Fault	11VDC ±3%
Battery Deep Discharge Voltage Limit	10.5VDC ±3%
Tamper contact	Front, paddle micro-switch input with connector on PCB
Automatic Reset Time	10ms to 18s (depends on the nature & duration of the fault)
Operating Temperature Range	-10°C to +40°C
Humidity	95% non-condensing

1A version D1521	2A version D1522	Description	Suitable Batteries	Dimensions H x W x D (mm)	Weight
D1541-A *	D1542-A **	Steel, small-size A housing	1 x 7/8Ah	235 x 170 x 85	1.46kg
D1541-B *	D1542-B *	Steel, medium-size B housing	2 x 7/8Ah or 1 x 17Ah	260 x 320 x 90	2.30kg
D1541-XB *	D1542-XB *	Steel, clam-shell lid, XB housing	2 x 7/8Ah or 2 x 17Ah	260 x 320 x 90	3.10kg
D1541-XLB *	D1542-XLB *	Steel, standard-size XLB housing	2 x 7/8Ah or 2 x 17Ah	295 x 425 x 90	3.25kg
D1541-XLBD *	D1542-XLBD *	Steel, extra-deep XLBD housing	Up to 4 x 17Ah	295 x 490 x 165	5.20kg
D1541-C *	D1542-C *	Steel, large C-size housing	2 x 7/8Ah or 2 x 17Ah	345 x 430 x 90	3.40kg
D1541-E *	D1542-E *	Steel, extra-large E-size housing	2 x 7/8Ah or 2 x 17Ah	405 x 500 x 90	4.65kg
D1541-W	D1542-W **	Plastic IP65, W-size housing	1 x 2.1Ah or 1 x 7/8Ah	245 x 195 x 90	1.45kg
D1541-G *	D1542-G *	Steel very large G-size housing	2 x 24Ah or up to 4 x 17Ah	690 x 455 x 165	8.75kg
D1541-P	D1542-P	PCB-only version	Depends on housing	140 x 94 x 47	0.26kg

Notes: \* To order a black version, please add a -BK product code suffix to the part number, e.g. D1522-XLB-BK

\*\* Depending on EN50131/PD6662 Grade 2 battery standby requirements, this may need a separate, additional battery box

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For more information about the Dycon products:

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

Or to discuss your specific needs, call:

+44(0)1443 471 900



QR code to download manual

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  
D1521\_D1522 data sheet 1112023v2