

D152X-series

Switched-Mode, 0.5A, 1A & 2A Power Supplies for
EN50131/PD6662 Security Grade 2 Intrusion Systems



Dycon D152X-Series are 0.5A, 1A & 2A EN-Compliant, switched-mode power supplies which satisfy the requirements of EN50131-1 and PD6662 to Security Grade 2. These Grade 2 units have two voltage free outputs and LEDs 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, the D1520 and D1521 versions allow two batteries to be connected whereas the D1522 can have three. All batteries are monitored for low-voltage, disconnection and load test and, if more than one battery is fitted, they are monitored individually. The batteries and electronics 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

www.dyconpower.com

General Purpose 12Vdc Power Solutions

12Vdc EN50131/PD6662 Grade2 Power Supplies

Specifications

Power Supply	Type A; D1520/1/2 Security Grade 2 Environmental Class 2
Voltage Input	230Vac +10% -15%; 50Hz ± 15%
AC Input Fuse	D1520/1/31-230V, 1A; D1522 230V, 3A
Output Voltage with AC Power	Maximum 13.7Vdc nominal
Output Ripple	< 50mV peak-to-peak at full rated output
Maximum Output Current at Full Load	D1520-0.5A; D1521-1A; D1522-2A;
Battery Recharge Time	D1520/1/2 < 72 hours
Minimum Standby Output Voltage	9.6Vdc
Maximum Over-Voltage Cut-Out	14.4Vdc ±3%
Low Battery Fault	11Vdc ±3%
Low-Voltage Power Output Fault	12.3Vdc ±3%
Battery Deep Discharge Voltage Limit	10.5Vdc ±3%
Automatic Reset Time *	10ms to 18s
Operating Temperature Range	-10°C to +40°C
Humidity	95% non-condensing
PCB size (h x w x d)	130 x 100 x 38mm
Weights	PCB-0.19kg; 'A' box-2.0kg; 'B' Box-3.2;

Note:

* Depending on the nature and duration of the fault.

Product Descriptions	'A' box (235 x 170 x 85mm)	'B' box (260 x 320 x 90mm)
0.5 Amp -12Vdc - Grade 2	D1520-A	D1520-B
1 Amp - 12Vdc - Grade 2	D1521-A	D1521-B
2 Amp - 12Vdc - Grade 2	D1522-A	D1522-B

Dycon Power Solutions Ltd

Unit A, Cwm Cynon Business Park, Mountain Ash, CF45 4ER, United Kingdom.

For more information about the Dycon range of power products:

www.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

D152X datasheet V2 020120