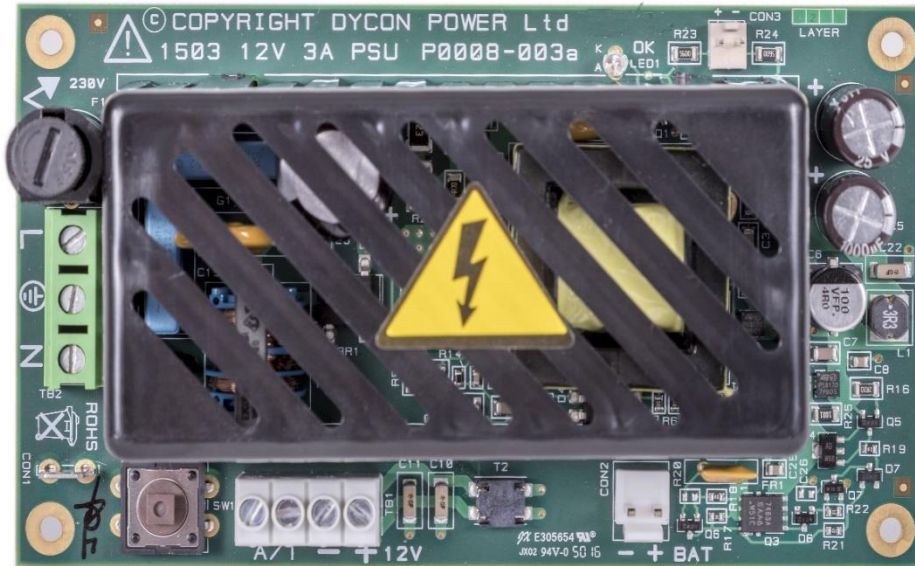


# D1503



Low noise, Switched-Mode, 13.8VDC 3A Power Supply for sensitive equipment with battery charging



- Efficient switched-mode design
- LED Power indicator
- Battery charging for 2.1 and 7/8 Ah sealed lead acid battery
- Protected against electrical 'spikes'
- Battery deep discharge cut off protection
- Over-voltage cut out and electronic PTC fuse
- Spring tamper on PCB

Dycon's D1503 is a low cost 3 Amp switched-mode power supply capable of charging a range of sealed lead acid/gel batteries. This model is specifically designed for applications where ultra-low emissions are required. The D1503 has very low ripple and is ideal for use with sensitive equipment. The advanced switched-mode design means that they consume far less electricity than conventional linear units.

D1503 power supplies are protected against electrical 'spikes' and also features over-voltage cut-out and battery deep-discharge cut off. A single LED power indicator is included for visual verification of the correct operation, this is also available using the 2-pin connector provided on the PCB.

The unit is available as a PCB only or fitted in a range of Dycon housings in various sizes. These include the D1503-W IP65 rated outdoor version, that will accept a range of battery types including 2.1 and 7 or 8Ah batteries. The D1503-D is suitable for use in standard DIN-Rail NS32-G and N35 7.5/15mm DIN-Rail cabinets and racks.

# Low noise Switched-Mode Power Solution

## 13.8VDC 3A Power Solution with battery charging

### Specifications

Power Supply	Type A, Ungraded, Environmental Class 2
Voltage Input	230VAC +10% -15%; 50Hz $\pm$ 15%
AC Input Current	400mA @230VAC
AC Input Fuse	1A 5 x 20 mm glass fuse
Output Voltage with AC Power	13.8VDC nominal
Output Ripple	< 17mV peak-to-peak at full rated output
Maximum Output Current at Full Load	3A
Suitable Battery	2.1Ah, 7 or 8Ah sealed lead acid or gel rechargeable VRLA
Battery Charging Current and Voltage	300mA at 13.7Vdc float charge voltage
Battery cable	Included 300 mm length with Faston 4.75mm connectors
Maximum Over-Voltage Cut-Out	14.4VDC $\pm$ 3%
Output fuse	Electronic PTC fuse, self-resetting when fault is removed.
Tamper (only if supplied in housing)	On-board front tamper with Spring and PCB connector
Battery Deep Discharge Voltage Limit	10VDC $\pm$ 3% with auto cut off for battery protection
LED indication	1 x Green LED 'Power Good'.
External LED connection	1 x Jumper-style 2-pin connector for 'Power Good' indication.
Operating Temperature Range	-10°C to +40°C
Humidity	95% non-condensing
Efficiency	>85%

Part Number	Description	Size l x w x d	Weight
D1503-A	3A power supply in white steel A-box	168mm x 238mm x 85mm	1.30kg
D1503-B	3A power supply in white steel B-box	315mm x 260mm x 90mm	2.10kg
D1503-C	3A power supply in white steel C-box	425mm x 345mm x 90mm	3.50kg
D1503-W	3A power supply in an IP65 weatherproof housing	245mm x 195mm x 90mm	1.2kg
D1503-D	3A power supply supplied in a DIN-Rail cradle	134mm x 90mm x 70mm	0.25kg
D1503-P	3A power supply PCB module	130mm x 72mm x 38mm	0.19kg

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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.

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