

# D1558

## Multi-Indicator, Switched-Mode, 8 Amp Power Supply



*Illustration shows an 8A D1558 unit in a C-box, with a D15X8 splitter, a DIN-Rail and feather-trunking*

- 8A maximum current at full load
- 13.7VDC 500mA battery charging current
- Protection against electrical spikes, battery deep-discharge & over voltage
- Opto relay fault output
- Switchable ON/OFF input
- Self-resetting PTC fuse
- 3 x LED matrix can display 14 separate fault/status conditions
- Extensive range of steel and IP65 plastic housings

Dycon D1558 is a 12VDC 8 Ampere switched-mode power supply with normally closed (NC) volt-free output for remotely signalling the status and serviceability of units. This output can be used to indicate problems either locally or remotely via a suitable signalling device. Specially designed for access control applications using Dycon's unique protective technology, this units features a switchable ON/OFF input 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. This output is ideal for interfacing with fire alarm systems where a single command from a fire panel can release all the doors, equally, it can be used with timers to activate to turn on or off an access system at predetermined times. The D1558 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. Optional output splitters are also available, connected to the power output, a D15X8 provides up to 8 x individually-fused outputs and indicators, the DFX4-OP has 4 x electronically fused outputs and the D15X4-BNC can power up to 4 cameras with loop-through connections for signals, making it ideally suited for use in powering CCTV systems

# Access Control Power Solutions

12VDC 8 Ampere Switched-Mode Power Solutions,  
Ideal for powering Access Control Systems

## Specifications

Power Supply	Type A, Ungraded, Environmental Class 2
Voltage Input	195Vac -265Vac @ 50-60Hz
AC Input Current	800mA
AC Input Fuse	3A
Output Voltage with AC Power	Maximum 13.9Vdc, minimum 13.5Vdc
Output Ripple	< 0.25V peak-to-peak at full rated output
Maximum Output Current at Full Load	8 Ampere
Battery Charging Current and Voltage	500mA at 13.7Vdc float charge voltage
Minimum Standby Output Voltage	9.6Vdc
Maximum Power Input at Full Load	113W
Fault Relay Rating	60V @ 100mA, 14ohms closed
Efficiency	>85% @ 8A load
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	10Vdc ±3%
Automatic Reset Time *	10ms to 18s (Depending on type and duration of fault)
PCB Size (mm)	108 x 142 x 46
Operating Temperature Range	-10°C to +40°C
Humidity	95% non-condensing

Part No.	Description	Suitable Batteries	Dimensions H x W x D (mm)	Weight (kg)
D1558-A	Steel, small-size A housing	1 x 7/8Ah	235 x 170 x 85	1.35
D1558-B	Steel, medium-size B housing	2 x 7/8Ah	260 x 320 x 90	2.15
D1558-XB	Steel, clam-shell lid, XB housing	2 x 7/8Ah or 2 x 17Ah	295 x 425 x 90	2.45
D1558-XLB	Steel, standard-size XLB housing	2 x 7/8Ah or 2 x 17Ah	295 x 425 x 90	2.45
D1558-XLBD	Steel, extra-deep XLBD housing	Up to 4 x 17Ah	295 x 490 x 165	4.65
D1558-C	Steel, large C-size housing	2 x 7/8Ah or 2 x 17Ah	345 x 430 x 90	3.55
D1558-E	Steel, very-large E-size housing	2 x 7/8Ah or 2 x 17Ah	405 x 500 x 90	6.05
D1558 -G	Steel, extra-large G-size housing	2 x 24Ah or up to 4 x 17Ah	690 x 455 x 165	8.75
D1558-W	Plastic IP65, W-size housing	1 x 2.1Ah or 1 x 7/8Ah	245 x 195 x 90	1.70
D1558-P	PCB-only version	Depends on housing	108 x 142 x 42	0.25
D15X8-500mA	8-way output splitter with 8 x 500mA glass fuses		49 x 108 x 17	0.70
D15X8-1A	8-way output splitter with 8 x 1A glass fuses		49 x 108 x 17	0.70
D15X4-BNP	4-way output splitter with 4 x BNC sockets & video loop through		71 x 128 x 15	0.80
DFX4-OP	4-way output splitter with 4 x self-resetting PET fuses		40 x 60 x 19	0.20
DFR-1-12	12VDC universal output relay module		40 x 60 x 19	0.26

### Dycon Power Solutions Ltd

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

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

website: [www.dyconpower.com](http://www.dyconpower.com)  
email: [sales@dyconpower.com](mailto:sales@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

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