

# D1555 and D1558

Multi-Indicator, Switched-Mode, 5A and 8A Power Supplies



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

- 5A (D1555) or (D1558) 8A maximum current at full load
- 13.7VDC 300 or 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 display can show 14 separate fault/status conditions
- Extensive range of steel and IP65 plastic housings

Dycon D1555 and D1558 are 12VDC switched-mode power supplies with a normally closed (NC) opto-relay, 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. Both units feature 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



**DYCON**  
power solutions

# Access Control Power Solutions

12VDC 5A and 8A 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	D1555 - 600mA; D1558 - 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	D1555 - 5 Ampere; D1558 – 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	D1555- 78W; D1558 - 113W
Fault Opto-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

5A version D1555	8A version D1558	Housing Type	Suitable batteries	Dimensions H x W X D (mm)	Weight (Kg)
D1555-A	D1558-A	Steel, small A size	1 x 7/8Ah	235 x 170 x 85	1.35
D1555-B	D1558-B	Steel, medium B size	2 x 7/8Ah	260 x 320 x 90	2.15
D1555-XB	D1558-B	Steel Clam-shell lid XB size	2 x 7/8Ah or 2 x 17Ah	295 x 425 x 90	2.45
D1555-XLB	D1558-XLB	Steel, standard-size XLB size	2 x 7/8Ah or 2 x 17Ah	295 x 425 x 90	2.45
D1555-XLBD	D1558-XLBD	Steel, extra-deep XLBD size	Up to 4 x 17Ah	295 x 490 x 165	4.65
D1555-C	D1558-C	Steel, large C size	2 x 7/8Ah or 2 x 17Ah	345 x 430 x 90	3.55
D1555-E	D1558-E	Steel, very-large E size	2 x 7/8Ah or 2 x 17Ah	405 x 500 x 90	6.05
D1555-G	D1558-G	Steel, extra-large G-size	2 x 24Ah or up to 4 x 17Ah	690 x 455 x 165	8.75
D1555-W	D1558-W	Plastic IP65, W-size	1 x 2.1Ah or 1 x 7/8Ah	245 x 195 x 90	1.70
D1555-P	D1558-P	PCB-only version	Depends on housing	108 x 142 x 90	0.25
<b>Dycon Accessories for use with both D1555 &amp; D1558, these can be specified to be factory-fitted into a specific PSU housing</b>					
D15X8-500mA	8-way output splitter (8 x 500mA glass fuses)			49 x 108 x 17	0.70
D15X8-1A	8-way output splitter (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
DFX4-0P	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 16 x 19	0.26

### 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:

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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.

Designed and manufactured in the UK

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