

D1555 & D1558

Multi-Indicator, Switched-Mode, 5A & 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) & 8A (D1558) 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 matrix can display 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 switched 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 D15X8-500mA provides up to 8 x individually-fused 500mA outputs, the D15X8-1A provides 8 x individually-fused 1A outputs both with LED indicators, the DFX4-OP has 4 x self-resetting electronically fused outputs and LED indicators.



DYCON
power solutions

Access Control Power Solutions

12VDC 5A and 8 A 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	5A (D1555) : 8A (D1558)
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 42 (46mm when fitted on stand-offs)
Operating Temperature Range	-10°C to +40°C
Humidity	95% non-condensing

5A version	8A version	Housing type	Suitable Batteries	Dimensions H x W x D (mm)	Weight (Kgs)
D1555-A	D1558-A	Small, steel, A housing	1 x 7/8Ah	235 x 170 x 85	1.35
D1555B	D1558-B	Medium, steel, B housing	2 x 7/8Ah	260 x 320 x 90	2.15
D1555-XB	D1558-XB	Clam-shell lid, steel, XB housing	2 x 7/8Ah or 2 x 17Ah	295 x 425 x 90	2.45
D1555-XLB	D1558-XLB	Standard, steel, XLB housing	2 x 7/8Ah or 2 x 17Ah	295 x 425 x 90	2.45
D1555-XLBD	D1558-XLBD	Extra-deep, steel, XLBD housing	Up to 4 x 17Ah	295 x 490 x 165	4.65
D1555-C	D1558-C	Large, steel, C size housing	2 x 7/8Ah or 2 x 17Ah	345 x 430 x 90	3.55
D1555-E	D1558-E	Very-large, steel, E housing	2 x 7/8Ah or 2 x 17Ah	405 x 500 x 90	6.05
D1555-G	D1558 -G	Extra-large, steel, G housing	2 x 24Ah or up to 4 x 17Ah	690 x 455 x 165	8.75
D1555-W	D1558-W	Plastic IP65, W size housing	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 42	0.30

Dycon Accessories for use with D1555 & D1558, these can be specified to be factory fitted into any suitable specific PSU housing

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
DFX4-0P	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 60 x 19	0.26

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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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