

# D155X Series



## Multi-Indicator, Switched-Mode 1, 3 and 5Amp Power Supplies



Illustration shows a D1553-X8-CDIN 3A unit with an optional D15X8 splitter, a DIN-Rail and feather-trunking

- 1A, 3A, or 5A output versions
- 13.7VDC 300mA constant current 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 Indicators can display 14 separate fault/status conditions
- Extensive range of steel and IP65 plastic housings

These Dycon units are switched-mode power supplies with normally closed (NC) volt-free outputs, for remotely signalling the status and serviceability of units. These outputs 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, these units' feature a switchable ON/OFF output capable of switching highly inductive loads (door strikes and locks). Also 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. These 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 video signals, making it ideally suited for use in powering CCTV systems.

# Access Control Power Solutions

## 12VDC Switched-Mode Solutions, Ideal for Access Control Systems

|   |   |
|---|---|
| <b>Power Supply</b>                         | Type A, Ungraded, Environmental Class 2               |
| <b>Voltage Input</b>                        | 195VAC -265VAC @ 50-60Hz                              |
| <b>AC Input Current</b>                     | D1551-200mA; D1553-400mA; D1555-600mA                 |
| <b>AC Input Fuse</b>                        | D1551-1A; D1553-2A; D1553-3A; D1555-3A                |
| <b>Output Voltage with AC Power</b>         | Maximum 13.9VDC, minimum 13.5VDC                      |
| <b>Output Ripple</b>                        | < 0.25V peak-to-peak at full rated output             |
| <b>Maximum Output Current at Full Load</b>  | D1551-1A; D1553-3A; D1555-5A                          |
| <b>Battery Charging Current and Voltage</b> | 300mA at 13.7VDC float charge voltage                 |
| <b>Minimum Standby Output Voltage</b>       | 9.6VDC  |
| <b>Maximum Power Input at Full Load</b>     | D1551-16W; D1553-47W; D1555-78W                       |
| <b>Fault Opto-Relay Rating</b>              | 60V @ 100mA, 14ohms closed                            |
| <b>Efficiency</b>                           | >85% @ 5A load  |
| <b>Maximum Over-Voltage Cut-Out</b>         | 14.4VDC ±3%   |
| <b>Low Battery Fault</b>                    | 11VDC ±3%   |
| <b>Low-Voltage Power Output Fault</b>       | 12.3VDC ±3%   |
| <b>Battery Deep Discharge Voltage Limit</b> | 10VDC ±3%   |
| <b>Automatic Reset Time*</b>                | 10ms to 18s (Depending on type and duration of fault) |
| <b>Operating Temperature Range</b>          | -10°C to +40°C  |
| <b>Humidity</b>                             | 95% non-condensing                                    |

| 1A version<br>D1551  | 3A version<br>D1553 | 5A version<br>D1555 | Housing Type  | Suitable batteries         | Dimensions<br>H x W X D (mm)   | Weight<br>(Kg)       |
|--|---------------------|---------------------|---|----------------------------|--|----------------------|
| D1551-A  | D1553-A             | D1555-A             | Steel, small A size   | 1 x 7/8Ah                  | 235 x 170 x 85   | 1.35                 |
| D1551-B  | D1553-B             | D1555-B             | Steel, medium B size  | 2 x 7/8Ah                  | 260 x 320 x 90   | 2.15                 |
| D1551-XB   | D1553-B             | D1555-XB            | Steel Clam-shell lid XB size                                    | 2 x 7/8Ah or 2 x 17Ah      | 295 x 425 x 90   | 2.45                 |
| D1551-XLB  | D1553-XLB           | D1558-XLB           | Steel, standard-size XLB size                                   | 2 x 7/8Ah or 2 x 17Ah      | 295 x 425 x 90   | 2.45                 |
| D1551-XLBD   | D1553-XLBD          | D1558-XLBD          | Steel, extra-deep XLBD size                                     | Up to 4 x 17Ah             | 295 x 490 x 165  | 4.65                 |
| D1551-C  | D1553-C             | D1558-C             | Steel, large C size   | 2 x 7/8Ah or 2 x 17Ah      | 345 x 430 x 90   | 3.55                 |
| D1551-E  | D1553-E             | D1558-E             | Steel, very-large E size  | 2 x 7/8Ah or 2 x 17Ah      | 405 x 500 x 90   | 6.05                 |
| D1551-G  | D1553-G             | D1558-G             | Steel, extra-large G-size                                       | 2 x 24Ah or up to 4 x 17Ah | 690 x 455 x 165  | 8.75                 |
| D1551-W  | D1553-W             | D1558-W             | Plastic IP65, W-size  | 1 x 2.1Ah or 1 x 7/8Ah     | 245 x 195 x 90   | 1.70                 |
| D1551-P  | D1553-P             | D1555-P             | PCB-only version  | Depends on housing         | D1551= 93 x 131 x 42<br>D1553= 93 x 135 x 42<br>D1555=108 x 141 x 46 | 0.13<br>0.16<br>0.24 |
| <b>Dycon Accessories, suitable for use with both D1551 &amp; D1553, which can be specified to be factory-fitted into the 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                 |

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

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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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