

D155X-X8-C/EDIN

12Vdc 3A/5A Multi-Output, Switched-Mode, Power Supplies



Illustration shows a D1555-X8-CDIN-T unit

- D1553 3A or D1555 5A Switched-Mode, intelligent power supply with an 8-way output splitter, mounted on an NS35/7.5 'Top-Hat' DIN-Rail a 12 x DIN-connector cover and 2 x DIN-ends mounted on a second NS35/7.5 DIN-Rail. 2 x lengths of feather trunking provide neat cable routings inside the 1.3mm mild-steel housing.
- Fully self-monitored and provided with fault outputs that can remotely identify a wide range of fault conditions including 'Overload shutdown', 'Output over-voltage', 'Output under-voltage', 'Output overloaded/shorted out', 'Battery disconnected' and 'Battery low voltage'. This monitoring is designed to ensure that the unit is fully functioning at all times
- Two sizes of housing with front and back tamper switch and each with ample space inside for additional control modules



DYCON
power solutions

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D155X-X8-C/EDIN SERIES

12Vdc Switched-Mode Power Solutions, Ideal for Driving Access System Door Controllers & Peripherals

Specifications

Power Supply	Type A, Ungraded, Environmental Class 2
Voltage Input	230Vac- Minimum 195Vac - Maximum 265Vac @ 50-60Hz
AC Input Current	600mA @230Vac
AC Input Fuse	3.15A, Slow-Blow (<i>non-replaceable</i>)
Output Voltage with AC Power	13.6Vdc - <i>maximum 13.9Vdc, minimum 13.5Vdc</i>
Output Ripple	< 0.25V peak-to-peak at full rated output
Maximum Output Current at Full Load	D1553-3A, D1555-5A
Battery Charging Current and Voltage	300mA at 13.7Vdc float charge voltage, <i>in addition to the main current output of 3A (D1553) or 5A (D1555)</i>
Minimum Standby Output Voltage	9.6Vdc
Maximum Power Input at Full Load	D1553-47W; D1555-78W
Fault Relay Rating	60V @ 100mA, 14ohms closed
Efficiency	D1553 = >85% @ 3A load; D1555 = >85% @ 5A 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 (<i>Depending on type and duration of fault</i>)
PCB Size (mm)	D1553 - 134 x 92 x 38mm; D1555- 140 x 108 x 46mm
Operating Temperature Range	-10°C to +40°C

D15XX-X8-C/EDIN-T Series Power Supplies

Increasingly, throughout the World, large buildings and construction sites concentrate low-voltage power distribution into DIN-rail cabinets rather than into separate boxes for each sub-system. To meet this demand, Dycon's D155x-X8-C/EDIN-T Series has been designed to offer a ready-built, high-efficiency, multi-DIN-rail power solution for use with a wide variety of security and electrical systems. The range offers two power outputs, 3 Amp and 5 Amp and two different size housings providing ample power and space for most applications, all units feature Dycon's unique, advanced, power technology which utilises the latest on-demand battery charging and dynamic load output current sharing (DLS) to ensure that the system's battery is never over-stressed, thus prolonging its life and its ability to respond when needed. Additional battery health impedance checks, battery presence detection, deep discharge battery protection and battery over-voltage shutdown protection all go to ensure that a system functions always functions at an optimum level.

All units have a remote 30V tolerant/5V logic compatible ON/OFF input with an internal 100KΩ resistor pull-up connected to 5V. This input enables authorised personnel to switch the unit ON or OFF from a remote location or device when required.

A pair of normally-closed (NC) PSU fault output relay contacts open when any of the following fault conditions are detected: -

- *Thermal Shutdown due to overload*
- *Switched-mode output over-voltage*
- *Switched-mode low output voltage fault*
- *12Vdc output shorted or overloaded*
- *Battery disconnected*
- *Low battery voltage*

This output can be connected local warning devices or to remote signalling devices to alert service staff to any problems

Product Part Numbers	Input/Output Voltages	Total Output Current	Battery Charge Current	Housing Size (W x H x D)
D1553-X8-CDIN-T	195-230Vac 50-60Hz/13.8Vdc	3 Amps	300mA@13.7Vdc	430 x 345 x 90mm
D1555-X8-CDIN-T	195-230Vac 50-60Hz/13.8Vdc	5 Amps	300mA@13.7Vdc	430 x 345 x 90mm
D1553-X8-EDIN-T	195-230Vac 50-60Hz/13.8Vdc	3 Amps	300mA@13.7Vdc	500 x 400 x 90mm
D1555-X8-EDIN-T	195-230Vac 50-60Hz/13.8Vdc	5 Amps	300mA@13.7Vdc	500 x 400 x 90mm

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For more information about the Dycon range of power products:

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Or to discuss specific requirements:

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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