

D2430-series



EN54-2/-4 approved Fire System 1.5-5Amp Power Supplies



Dycon D243X-Series units are 1.5, 3 and 5Amp switched-mode power supplies complying with EN54-2 and EN54-4. They feature on-demand load sharing to provide exceptional flexibility, allowing rapid, large-capacity, battery charging with either extended, standby, hold-up duration at light loads, or short, high current, peak loads where the spare capacity is diverted to battery charging. All units are fitted with a constant-operation temperature sensor which automatically adjusts the charging rate to ensure that a battery is never over charged simply because the ambient temperature has risen. Rather than relying on simple, voltage readings to gauge the battery condition, the D243X-series units constantly check the batteries' impedance which gives a more accurate reading and prior warning of impending problems. A data port enables a service engineer to access this data on a Dycon D2330 hand-held logger, which also provides accurate real-time voltage and current measurements, and can display a log showing all occurrences since the log was last interrogated



DYCON
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D2430-Series

EN54-2/-4 24Vdc Fire System Power Solutions

Specifications

Construction Product Regulation	0359-CPR-00434
Voltage Input	230Vac +10% -15%; 50Hz ± 15%
Max. AC Input Continuous Current	D2431 - 0.45A; D2433 - 0.9A; D2435 - 1.5A
Recommended Fused-Spur Input Fuses	D2431-250V T1A; D2433-250V T3.15A; D2435 250-T3.13A
Output Voltage with AC Power	Minimum 26Vdc; Maximum 29.5Vdc Nominal
Output Ripple	< 0.7V Peak-to-Peak at Full Rated Output
Maximum Output Current at Full Load	D2341-1.5A; D2343-3A; D2345-5A
Battery Charging Current and Voltage	On-Demand; Max. D2431-1.5A; D2343-3A; D2345-5A
Type of Batteries	D2431 & D2433-7 = 2 x 12Vdc 7/8AH, Sealed Lead/Acid; D2433-17 & D2435-17 = 12Vdc 2 x 17/18Ah, SealedLead/Acid
Standby Output Voltage	Minimum 19.5Vdc; Maximum 22.4Vdc
PSU Standby Current	32mA
Over-Voltage Cut-Out Threshold	30Vdc 2%
Low-Voltage Power Output Fault	<22Vdc ±2%; Low Voltage Restore >23Vdc ±2%
Battery Deep Discharge Voltage Limit	21Vdc ±2%
Output Monitoring Threshold	Battery Charging Voltage <±2%
Battery Fuse	6A PTC non-replaceable
Fault Relays	Normally-Closed, 100mA at 60V. On-Resistance 16ohms maximum, 1500VRMS Isolation Voltage
Operating Temperature Range	-10°C to +40°C
Humidity	95% non-condensing
PCB size (h x w x d)	168 x 141 x 38mm

Product Descriptions	PCB only	Small Housing (329.5 x 294 x 85mm)	Large Housing (394.5 x 379 x 90mm)
1.5 Amp -24Vdc (2 x 8Ah batteries)	Not Available	D2431	Not Available
3 Amp - 24Vdc (2 x 8Ah batteries)	Not Available	D2433-7	Not Available
3 Amp - 24Vdc (2 x 17Ah batteries)	Not Available	Not Available	D2433-17
5 Amp - 24Vdc (2 x 17Ah batteries)	Not Available	Not Available	D2435-17
Hand-Held, Engineer's, Data Logger	D2330		
Remote Battery Temperature Sensor	D2430		

Dycon Power Solutions Ltd

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For more information about the Dycon range of power products:

www.dyconpower.com

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