

D1532SM

EN50131/PD6662:2012 Grade 3, Advanced Technology,
Switched-Mode, 3A Power Supply for Intrusion Systems



Designed to meet the requirements of EN50131/PD6662:2012 Grade 3 intruder alarm systems, the D1532SM can also be used in Grade1, 2 and 2X systems where additional power is required to drive peripheral devices such as large sirens, external detectors, access control systems and door releases. Dycon's unique, advanced, power technology 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.



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D1532SM

12Vdc EN50131/PD6662:2012 Grade3 Power Supplies

The D1532SM units also have an RJ45 port which enables an engineer to connect an optional Dycon D2330 Data Logger and programme a unit, download the configuration, read the unit's current status or check the service history.

SPECIFICATIONS	
EN50131/PD6662:2012 Classification	Security: Grade 3, Environmental: Class 2
Mains Input Voltage	230VAC $\pm 10\%$, 50Hz.
SMPS PSU protection	Hysteric over-temperature and over-voltage protection
Maximum Input Continuous Current	300mA
Peak inrush current limit	20A maximum.
Recommended Mains Input Fuse	250V T1A 1.5KA breaking
Voltage Output AC Present	Min. 13.6Vdc, Max. 13.9Vdc No Load. Min. 13.4 at 2A load
Voltage Output Standby	Min. 10.5Vdc, 12Vdc Nominal No Load. Min 9.5Vdc, at 2A load
Continuous Output Current With 24AH Battery	2A
Peak output current	3A
Battery Type	2A standby for 12hours requires a 24AH SLA battery for compliance
24AH Battery Recharge Time	24 hours for 80% charge capacity
On-Board AC Power Input Fuse	20mm x 5mm, 250V, T1A, 1.5KA break ceramic
Battery Charging Current	On demand load sharing. Maximum 3A
Battery Low Voltage Fault	<11V $\pm 2\%$, low voltage restore, >11.5V $\pm 2\%$.
Battery Deep Discharge Disconnection	10.5V $\pm 2\%$
Output Monitoring Threshold	Battery charging voltage <2V $\pm 2\%$.
Battery Fuse	PTC, self-resetting, non-replaceable
SW Control Input	Low <1V, High >4V, 30V tolerant, 100K pull-up/down
Fault Relays	Normally closed, 100mA at 60V, 16 ohms max., 1500VRMS Isolation voltage
Fault Outputs, BAT FLT, AC FLT	Open collectors, Normally Off, 100mA at 50V
Battery current drawn by power supply without mains	Maximum 90mA (Depending on PSU status)
Maximum Ripple Voltage	0.7V peak to peak.
Operating Temperature and Humidity Range	-10°C to +40°C, 75% maximum humidity, non-condensing

Description	PCB only	A box 235 x 170 x 85mm	B box 260 x 320 x 90mm	C box 345 x 430 x 90mm
3A-12Vdc Grade 3 power supply with battery charging capability	D1532SM-P	D1532SM-A. <i>Requires an additional battery box to comply with Grade 3 requirements</i>	1532SM-B	D1532SM-C
Engineer's hand-held data logger	D2330			

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For more information about the Dycon range of power 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