

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 Grade 1, 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:

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