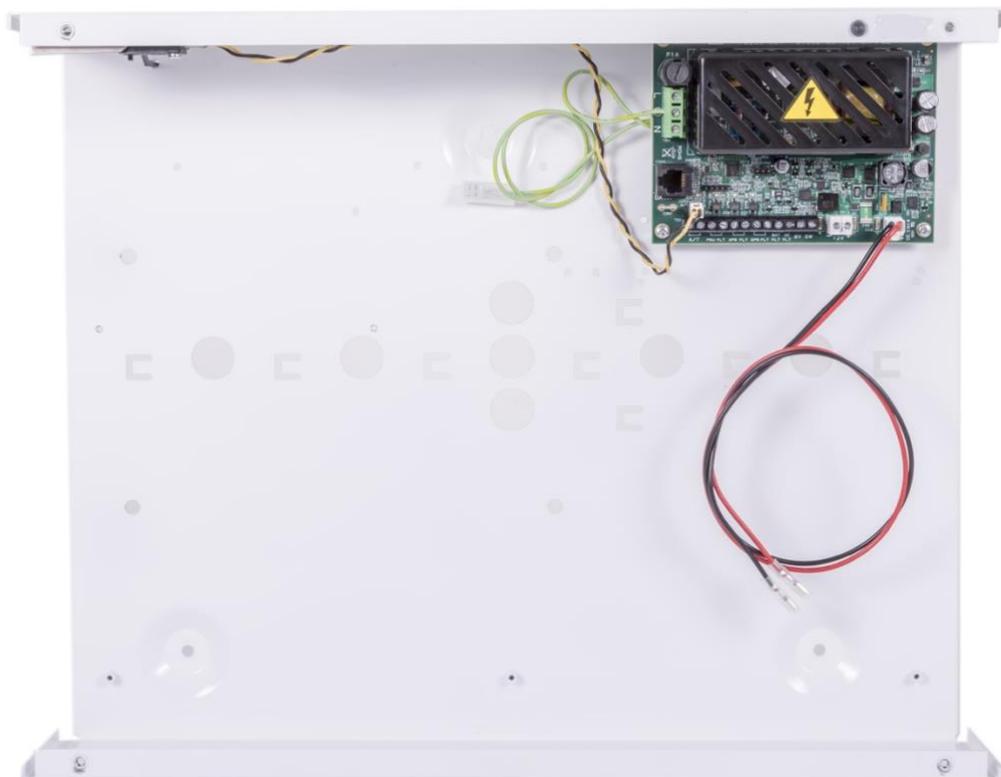


D1632



90-264VDC, Micro-processor Controlled, Advanced Technology,
'Smart', Switched-Mode Power Supply



- 90-264VDC input, 13.8VDC output
- 1.5A output + 1A battery charging
- EN50131 Grade 3 compliant
- On-demand battery charging
- 3 Opto-relay fault outputs
- Data output socket

The Dycon D1632 is a microprocessor-controlled, 'smart' power supply which uses its advanced technology to improve system reliability and offer performance enhancements including a switched output with jumper-selectable, programmable control input. D1632 can be used for intruder alarm systems complying with EN50131 Security Grades 1, 2 & 3 (Type A and EN50136-1 power supplies). It is also ideal for use where additional power is required to drive access control systems, door releases, peripheral devices such as large sirens and external detectors. 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.

D1632

90-264VAC 13.8Vdc 'Smart' Power Supplies

D1632 units also feature an integral data port.

SPECIFICATIONS

EN50131/PD6662:2012 Classification	Security: Grade 3; Environmental: Class 2
Mains Input Voltage	90-264VAC $\pm 10\%$, 50Hz.
SMPS PSU Protection	Hysteric Over-Temperature & 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 1.5A Load
Voltage Output Standby	Min. 10.5Vdc, 12Vdc Nominal No Load. Min 9.5Vdc, @ 1.5A Load
Continuous Output Current With 24AH Battery	1.5A
Peak Output Current	2.5A
On-Board AC Power Input Fuse	20mm x 5mm, 250V, T1A, 1.5KA Break Ceramic
Recommended Battery Type & Capacity	Sealed Lead-Acid Type; 7, 17, 24 or 38 Ah Capacity
Battery Connectors Supplied	2 x Faston 4.75; 2 x M5 Optional For 17, 24 & 38Ah Batteries
24AH Battery Recharge Time	24 Hours for 80% Charge Capacity
Battery Charging Current	On-Demand Load Sharing. Maximum 1A
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 Opto-Relays for faults with EPS (AC power), APS (Battery) and PSU (Power Supply Unit)	Normally Closed, 100mA at 60V, 16 Ohms Maximum, 1500VRMS Isolation Voltage
Fault Outputs: - Battery fault, FLT (Generic Fault), AC fault	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

Part No.	Housing type	Height (mm)	Width (mm)	Depth (mm)
D1632	PCB-only	100	130	42
D1632-B	'B'-box	260	320	90
D1632-XB	Clam-shell lid 'XB'-box	295	415	90
D1632-XLB	'XLB'-box	295	415	90
D1632-XLBD	Extra-deep XLBD' box	295	415	165
D1632-C	'C'-box	345	430	90
D1632-E	Large 'E'-box	405	500	90
D1632-G	Extra-large 'G'-box	690	455	165
D1632-W	IP65 'W'-box	245	195	90

Dycon Power Solutions Ltd

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For more information about the Dycon products:
www.dyconpower.com

Or to discuss your specific needs: +44 (0)1443 471 900 ;
email : sales@dyconpower.com

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
D1632 data sheet 03012025v8