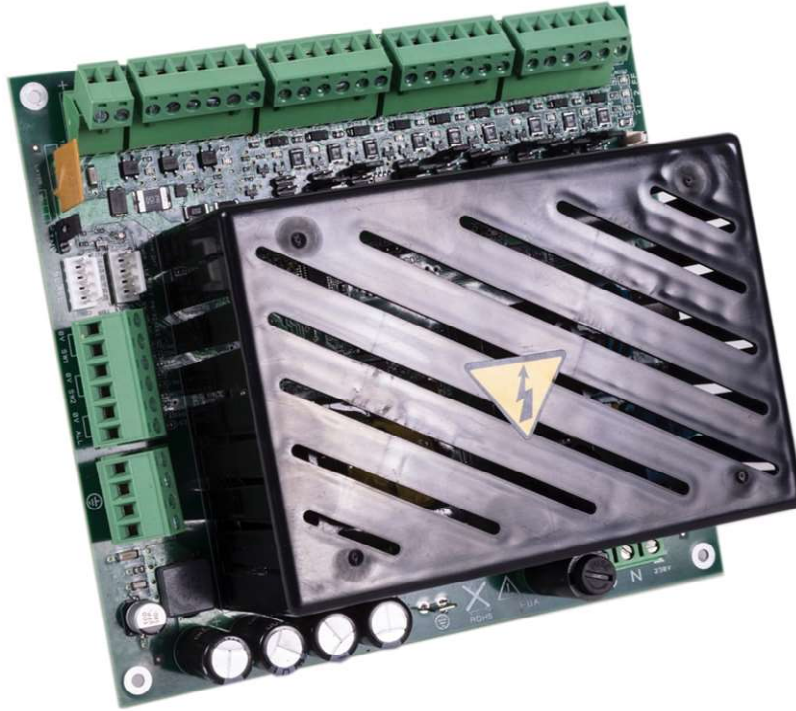


D1460-P



Advanced Technology, 10A Switched-Mode Power Supply Module with 9 Programmable, Switched 1A Outputs



Specially designed for larger system applications, the Dycon D1460-P is a 10A switched-mode power supply module designed to be fitted into suitable housings or control apparatus. Featuring Dycon's unique protective technology with intelligent and capacitive load switching surge protection and snubbing and its switched outputs are designed for highly inductive loads (door strikes and locks) removing the chance of an 'electrical spike' or transient causing a door to remain closed or open, a frequent cause of personnel delays and expensive engineer call outs. Each module has 9 x switched and programmable 12VDC x 1A outputs which can be divided into two separate switched groups, an 'always-on' group and individual outputs switching can be selected by jumper link. Individual outputs can be connected in parallel for high current loads making the D1460 a highly flexible, single, power solution. Master/Slave ganging allows the connection of 2 x D1460s together to provide a formidable 20A solution. Additionally, 3 x normally closed (NC) volt-free 'fault' outputs are provided for remotely signalling the status and serviceability of units. These fault outputs can be used to indicate problems either locally or remotely via a suitable signalling device. Battery-health impedance checks and battery presence checks, over-voltage shutdown protection and a 16-LED status display all go to ensure that an access control, BMS or other major system, functions continuously and that security is always at an optimum level. An integral data-port enables a Dycon D2330 Data-Logger to show the operational status of the unit including output voltages and current, battery charge rates/voltages, battery impedance and ambient temperature, in addition, it will display if there any current faults. D2300 can read the internal fault log showing any of eleven different types of fault events that may have occurred since the log was last cleared.

D1460-P Major Access System Power Module

12VDC 10A Switched-Mode Power Supply Module

SPECIFICATIONS	
AC Input Voltage	230VAC \pm 10%, 50Hz.
SMPS PSU protection	Hysteric over-temperature and over-voltage protection
Maximum Input Continuous Current	1A
Peak inrush current limit	20A maximum.
Recommended Switched Spur Input Fuses	250V T3.15A 1.5KA breaking
Voltage Output AC Present	Minimum 13VDC, Maximum 13.9Vdc, Load Dependant
Voltage Output Standby	Minimum 10VDC, 12 V Nominal, Load Dependant
Current output with battery charging	10A
Battery Charging Current	Constant current, low impedance, 1A minimum
Low Voltage detection thresholds	<11V \pm 2%, low voltage restore, >11.5V \pm 2%.
Battery Fault Circuit Impedance Threshold	>0.18 Ohm \pm 5%, at a nominal test current of 5A.
Deep Discharge Disconnection Threshold	<10.5V \pm 2%.
Overvoltage Detection Shutdown Threshold	>15V \pm 2%.
Output Monitoring Threshold	Battery charging voltage <2V \pm 2%.
On-Board AC Power Input Fuse	1A timed, 1.5KA breaking, ceramic
Battery Fuse	PTC, self-resetting, non-replaceable
Switched Output Fuses 1 to 9	1.1A PTC, self-resetting, non-replaceable
SW1, SW2, ALL Control Inputs	Logical 0 <1V, Logical 1 >4V, 30V tolerant, 100K pull-down
Fault Relays	Normally closed, 100mA at 60V. On-Resistance 16 ohms maximum, 1500VRMS Isolation voltage
Battery current drawn by power supply without AC supply	Maximum 90mA (Depending on PSU status)
Maximum Ripple Voltage	100mV peak to peak noise and ripple
Battery Type	Sealed Lead Acid Gel, 12V, 24AH maximum for 24 hour charging
Operating Temperature/Humidity	-10°C to +40°C, 95% maximum humidity, non-condensing
PCB Footprint Dimensions	210mm X 160mm

Type	PCB only	Compatible Data Logger/Programmer
10 Amp - 12VDC Power Supply Module- with battery charging	D1460-P	D2330

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email: sales@dyconpower.com

Or to discuss your specific needs:

+44 (0)1443 471 900



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

D1460-P data sheet 18062020 V4