

D1545



General Purpose, 12VDC 5A Multi-indicator, Switched-Mode, Power Supply



'C' box with lid off



'C' box



IP65 'W' box

- Multi-indicator power supply
- Range of enclosures
- Spring-activated tamper switch on PCB
- Battery deep discharge cut-off protection
- Battery backup/300mA charging
- Optional 4- or 8-way fused splitter
- Also available as PCB module-only

Dycon's D1545 unit is a 5 Amp switched-mode power supply with three separate LED indicators that show the operational status of the unit. In addition to the full 5A output, it also provides an additional 300mA for battery charging. A green LED indicates that the Mains AC power is present, an orange LED indicates when the unit is operating on standby battery power and a red LED activates if the electronic fuse has been tripped. This power supply is protected against electrical 'spikes' caused by the switching of highly inductive loads (door strikes and locks). They remove the chance of inductive kickback blowing a fuse and causing a door to remain closed or open, a frequent cause of personnel delays and expensive engineer call outs. It also features intelligent and capacitive load switching surge protection and snubbing. Two output splitters are available, an 8-way, with individually glass-fused outputs and 4-way, with electronically-fused outputs, they enable a single power supply to drive a wide variety of different devices. A relay output module, ideal as a fire door control relay for access systems, can also be fitted.



DYCON
power solutions

General Purpose 12VDC Power Solutions

D1545 12VDC 5A Multi-indicator, Switched-Mode Power Solution

Specifications

Power Supply	Type A, Ungraded, Environmental Class 2
Voltage Input	230VAC +10% -15%; 50Hz ± 15%
AC Input Current	600mA
AC Input Fuse	3A
Output Voltage with AC Power	Maximum 13.7VDC nominal
Output Ripple	25mV peak-to-peak at full rated output
Maximum Output Current @ Full Load	5A
Battery Charging Current and Voltage	300mA at 13.7VDC float charge voltage
Maximum Over-Voltage Cut-Out	14.4VDC ±3%
Low Battery Fault	11VDC ±3%
Low-Voltage Power Output Fault	12.3VDC ±3%
Battery Deep Discharge Voltage Limit	10VDC ±3%
Automatic Reset Time	10ms to 18s (Depending on type of duration of fault)
LED Indicators	GREEN - 230VAC is present ORANGE - Working on internal batteries as 230VAC is missing RED - No 12VDC output power, electronic output fuse tripped
Operating Temperature	-10°C to +40°C
Humidity	95% non-condensing

Part No.	Description	Suitable Batteries	Dimensions H x W x D (mm)	Weight including packaging
D1545-A	Steel, small-size A housing	1 x 7/8Ah	235 x 170 x 85	1.46kg
D1545-B §	Steel, medium-size B housing	2 x 7/8Ah or 1 x 17Ah	260 x 320 x 90	2.30kg
D1545-LB §	Steel, clam-shell lid, LB housing	2 x 7/8Ah or 2 x 17Ah	260 x 320 x 90	3.10kg
D1545-XLB §	Steel, standard-size XLB housing	2 x 7/8Ah or 2 x 17Ah	295 x 425 x 90	3.25kg
D1545-XLBD §	Steel, extra-deep XLBD housing	Up to 4 x 17Ah	295 x 490 x 165	5.20kg
D1545-C §	Steel, large C-size housing	2 x 7/8Ah or 2 x 17Ah	345 x 430 x 90	3.40kg
D1545-E §	Steel, extra-large E-size housing	2 x 7/8Ah or 2 x 17Ah	405 x 500 x 90	4.65kg
D1545-G §	Steel, extra-large G-size housing	2 x 24Ah or up to 4 x 17Ah	690 x 455 x 165	8.75kg
D1545-W	Plastic IP65, W-size housing	1 x 2.1Ah or 1 x 7/8Ah	245 x 195 x 90	1.45kg
D1545-P	PCB-only version	Depends on housing	140 x 94 x 47	0.26kg

Note: § To order a black version, please add a -BK suffix to the part number, e.g D1545-XLB-BK

Dycon Accessories for use with D1541, D1542 & D1543, these can be specified to be factory-fitted into a specific PSU housing			
D15X8-500mA	8-way output splitter (8 x 500mA glass fuses)	49 x 108 x 17	0.70
D15X8-1A	8-way output splitter (8 x 1A glass fuses)	49 x 108 x 17	0.70
D15X4-BNP	4-way output splitter with 4 x BNC sockets & video loop-through	71 x 128 x 15	0.80
DFX4-0P	4-way output splitter with 4 x self-resetting PET fuses	40 x 60 x 19	0.20
DFR-1-12	12VDC universal output relay module	40 x 16 x 19	0.26

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For more information about the Dycon products:

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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.

D1545 datasheet 02112023 V12