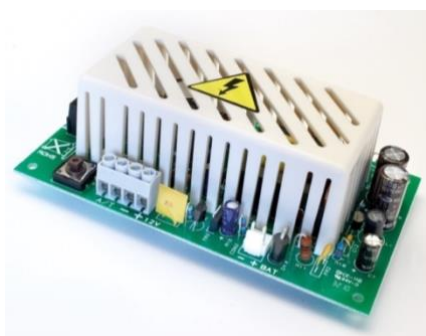


D1541, D1542, D1543



General Purpose, Multi-indicator, Switched-Mode, Power Supplies, 13.8VDC 1A, 2A & 3A output, with battery charging



D1543-P module



D1543 module in a DIN-rail cradle

- Multi-indicator - 1, 2 & 3A power supplies
- Large range of housing options
- Spring activated tamper switch on PCB
- Battery deep-discharge cut-off protection
- Battery backup with 300mA charging current
- Optional 4- or 8-way fused splitters
- Also available as module-only option

Dycon's D1541, D1542 & D1543 are 1, 2, & 3 Amp switched-mode power supplies, with three separate LED indicators that show the operational status of the unit. A green LED indicates that the Mains AC power is present, an orange LED lights when the unit is operating on standby battery power and a red LED lights if the electronic fuse has been tripped. These power supplies are 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. The range also features intelligent and capacitive load switching, surge protection and snubbing. Optional output splitters enable a single power supply to drive a wide variety of different devices. These include 8-way splitters with individually glass-fused outputs, and a 4-way splitter with self-resetting electronically-fused outputs. A 12VDC output relay module is also available, this can convert a single power output to relay operation.



DYCON
power solutions

General Purpose 12VDC Power Solutions

12 VDC Multi-indicator, Switched-Mode Power Solutions

Specifications

Power Supply	Type A, Ungraded, Environmental Class 2
Voltage Input	230VAC +10% -15%; 50Hz ± 15%
AC Input Current	D1541-200mA; D1542-300mA; D1543-400mA;
AC Input Fuse	D1541-1A; D1542-2A; D1543-2A;
Output Voltage with AC Power	Maximum 13.7VDC nominal
Output Ripple (P-to-P @ Full Load)	D1541 = 40mV; D1542 = 42mV; D1543 = 53mV
Maximum Output Current @ Full Load	D1541-1A; D1542-2A; D1543-3A;
Battery Charging Current and Voltage	300mA at 13.7VDC float charge voltage
Maximum Over-Voltage Cut-Out	14.4VDC ±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 Range	-10°C to +40°C
Humidity	95% non-condensing

1A versions D1541	2A versions D1542	3A versions D1543	Description	Suitable Batteries	Dimensions H x W x D (mm)	Weight t
D1541-A	D1542-A	D1543-A	Steel, small-size, A box	1 x 7/8Ah	235 x 170 x 85	1.46kg
D1541-B *	D1542-B	D1543-B	Steel, medium-size, B-box	2 x 7/8Ah or 1 x 17Ah	260 x 320 x 90	2.30kg
D1541-XB *	D1542-XB	D1543-XB	Steel, clam-shell lid, XB-box	2 x 7/8Ah or 2 x 17Ah	260 x 320 x 90	3.10kg
D1541-XLB *	D1542-XLB	D1543-XLB	Steel, standard, XLB-box	2 x 7/8Ah or 2 x 17Ah	295 x 425 x 90	3.25kg
D1541-XLBD *	D1542-XLBD	D1543-XLBD	Steel, extra-deep, XLBD-box	Up to 4 x 17Ah	295 x 490 x 165	5.20kg
D1541-C *	D1542-C	D1543-C	Steel, large, C-box	2 x 7/8Ah or 2 x 17Ah	345 x 430 x 90	3.40kg
D1541-E *	D1542-E	D1543-E	Steel, extra-large, E-box	2 x 7/8Ah or 2 x 17Ah	405 x 500 x 90	4.65kg
D1541-W	D1542-W	D1543-W	ABS Plastic, IP65, W-box	1 x 2.1Ah or 1 x 7/8Ah	245 x 195 x 90	1.45kg
D1541-G *	D1542-G	D1543-G	Steel, very large, G-box	2 x 24Ah or up to 4 x 17Ah	690 x 455 x 165	8.75kg
D1541-P	D1542-P	D1543-P	PCB module only	Depends on housing	130 x 73 x 43	0.26kg

Note: * To order a black painted version, please add a -BK suffix to the part number, e.g., D1543-XLB-BK

Dycon Accessories for use with D1541, D1542 & D1543, these can be ordered to be factory-fitted into any 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
DFX4-OP	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 60 x 19	0.26

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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.

D1541-2-3 datasheet 05052026v12