



Dycon Power Solutions



- 12vDC and 24vDC, 1A to 5A general purpose power supplies
- EN50131-compliant 0.5Ap (Grade 2) to 3Ap (Grades 2 and 3)
- All use the latest 'green' switched-mode technology
- All feature self-resetting, poly-switch fuse protection
 - Restores power automatically after intermittent power faults and reduces the need for engineer call out
- Choice of 3 size steel or 2 IP66 housings, or PCB only

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Power Solutions

www.dyconsecurity.com

Dycon Power Solutions

Switched-Mode Power Supplies

Dycon – Unique technology helping you reduce installation and service costs

All Dycon power supplies have, as standard, AC power input surge and transient protection; over-heating and over-current protection; under and over limit AC power protection; battery reverse connection and over current battery charge protection. All come with integral AC connectors and easy-to-fit battery connector leads, and feature a transformer-less PCB design which reduces weight and increases space in the housing.

Dycon - Helping you reduce your carbon footprint

Dycon's switched-mode power supplies offer smaller, neater, cooler power solutions, which are less expensive to run and maintain than traditional linear units.

Dycon's power supplies are more than 90%+ efficient, which represents less than a third of the power consumption of older conventional linear power supplies. They also offer improved long-term reliability and "greener" operation which will help users reduce their carbon footprint and electricity costs by up to 60%.

Because the Dycon power supplies generate less wasteful heat, the units can be fitted in areas where they are best suited rather than having to look for well ventilated spaces to ensure that they don't overheat as you have to do with conventional linear versions. Dycon units can also be used safely in areas with high ambient temperatures.

Many Dycon power supplies feature a unique constant current float charging technology which is less stressful to the battery than conventional resistive methods and can even extend the life of connected batteries by up to 12 months.

Intruder applications - EN-compliant to Grade 2 and Grade 3 applications

The EN-compliant range fully meets the requirements of EN50131-6, EN50313-1 and PD6662:2010. This ensures that installed systems using Dycon EN-ranges comply with UK and European standards.

CCTV applications - easy, quick installations

Dycon offers a power supply with variable output range (12V - 15VDC) and constant voltage, as well as 3A and 5A power supplies with multiple outputs and built-in video connectors (when used with the 4-way power splitter with video connections).

Access Control applications – dependable power solutions

Extra protection circuitry to eliminate door release 'spikes' problems; remotely controllable ON/OFF capability; self-resetting electronic fuses to reduce door/system downtime caused by transient faults.

Dycon Power Supplies

Dycon No.	Application	EN rating?	Amps	Battery charge	Outputs	Other Dycon features	Suitable for		
	INTRUDER						Intruder	Access	CCTV
D1520-A	13.6-13.8VDC 0.5A EN50131-G2 Switch Mode	EN50131-G2	0.5	Yes	1	Ripple @ Max Load <50mV & 66KHz operating frequency	✓		
D1520-B	13.6-13.8VDC 0.5A EN50131-G2 Switch Mode	EN50131-G2	0.5	Yes	1	Ripple @ Max Load <50mV & 66KHz operating frequency	✓		
D1521-B	13.6-13.8VDC 1A EN50131-G2 Switch Mode	EN50131-G2	1	Yes	1	Ripple @ Max Load <50mV & 66KHz operating frequency	✓		
D1522-B	13.6-13.8VDC 2A EN50131-G2 Switch Mode	EN50131-G2	2	Yes	1	Ripple @ Max Load <50mV & 66KHz operating frequency	✓		
D1523-C	13.6-13.8VDC 3A EN50131-G2 Switch Mode	EN50131-G2	3	Yes	1	Ripple @ Max Load <50mV & 66KHz operating frequency	✓		
D1531-B	13.6-13.8VDC 1A EN50131-G3 Switch Mode	EN50131-G3	1	Yes	1	Ripple @ Max Load <50mV & 66KHz operating frequency	✓		
D1532-B/C	13.6-13.8VDC 2A EN50131-G3 Switch Mode	EN50131-G3	2	Yes	1	Ripple @ Max Load <50mV & 66KHz operating frequency	✓		
D1533-C	13.6-13.8VDC 3A EN50131-G3 Switch Mode	EN50131-G3	3	Yes	1	Ripple @ Max Load <50mV & 66KHz operating frequency	✓		
	13.6-13.8VDC						Intruder	Access	CCTV
D1541-A/B/D*	13.6-13.8VDC 1A Switch Mode with multi indication - *Unboxed	No	1	Yes	1	Ripple @ Max Load <50mV & 66KHz operating frequency - DIN Mountable	✓	✓	✓
D1542-A/B/D*	13.6-13.8VDC 2A Switch Mode with multi indication - *Unboxed	No	2	Yes	1	Ripple @ Max Load <50mV & 66KHz operating frequency - DIN Mountable	✓	✓	✓
D1543-A/B/C/D*	13.6-13.8VDC 3A Switch Mode with multi indication - *Unboxed	No	3	Yes	1	Ripple @ Max Load <50mV & 66KHz operating frequency - DIN Mountable	✓	✓	✓
D1545-A/B/C	13.6-13.8VDC 5A Switch Mode with multi indication	No	5	Yes	1	Ripple @ Max Load <50mV & 66KHz operating frequency	✓	✓	✓

Dycon Power Solutions

Dycon No.	Application	EN rating?	Amps	Battery charge	Outputs	Other Dycon features	Suitable for		
							Intruder	Access	CCTV
D1551-A/B/C	13.6-13.8VDC 1A Switch Mode with multi indication, volt free fault output, remote on/off input	No	1	Yes	1	Volt Free Fault Output & Remote On/Off Input + Ripple @ Max Load <50mV & 66KHz operating frequency		✓	✓
D1553-A/B/C	13.6-13.8VDC 3A Switch Mode with multi indication, volt free fault output, remote on/off input	No	3	Yes	1	Volt Free Fault Output & Remote On/Off Input + Ripple @ Max Load <50mV & 66KHz operating frequency		✓	✓
D1555-A/B/C	13.6-13.8VDC 5A Switch Mode with multi indication, volt free fault output, remote on/off input	No	5	Yes	1	Volt Free Fault Output & Remote On/Off Input + Ripple @ Max Load <50mV & 66KHz operating frequency		✓	✓
D1501-A/B/D*	13.6-13.8VDC 1A Switch Mode - *Unboxed	No	1	Yes	1	Ripple @ Max Load <50mV & 66KHz operating frequency - DIN Mountable	✓	✓	✓
D1502-A/B/D*	13.6-13.8VDC 2A Switch Mode - *Unboxed	No	2	Yes	1	Ripple @ Max Load <50mV & 66KHz operating frequency - DIN Mountable	✓	✓	✓
D1503-A/B/D*	13.6-13.8VDC 3A Switch Mode - *Unboxed	No	3	Yes	1	Ripple @ Max Load <50mV & 66KHz operating frequency - DIN Mountable	✓	✓	✓
D1503-X8-A	13.6-13.8VDC 3A Switch Mode with 8 way output splitter	No	3	Yes	8	Ripple @ Max Load <50mV & 66KHz operating frequency			✓
D1505-A/B/C	13.6-13.8VDC 5A Switch Mode	No	5	Yes	1	Ripple @ Max Load <50mV & 66KHz operating frequency	✓	✓	✓
D1505-X8-A	13.6-13.8VDC 3A Switch Mode with 8 way output splitter	No	5	Yes	8	Ripple @ Max Load <50mV & 66KHz operating frequency			✓

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							Intruder	Access	CCTV
	12-15VDC								
D1565-B	12-15VDC Constant but variable 5A Switch Mode	No	5	Yes	No	Variable but constant voltage 12-15VDC + Ripple @ Max Load <50mV & 66KHz operating frequency			✓
D1565-X8-B	12-15VDC Constant but variable 5A Switch Mode with 8 way output splitter	No	5	Yes	8	Variable but constant voltage 12-15VDC + Ripple @ Max Load <50mV & 66KHz operating frequency			✓
	12VDC								
D1573-A/B/C	12V DC PSU with remote switching and fault output back-up - available in A, B, C boxes and as PCB	No	3	No		Ripple @ Max Load <50mV & 66KHz operating frequency			✓
D1575-A/B/C	12V DC PSU with remote switching and fault output back-up - available in A, B, C boxes and as PCB	No	5	No		Ripple @ Max Load <50mV & 66KHz operating frequency			✓
D1575-X8-A	12VDC 5A Switch Mode with 8 way output splitter	No	5	No	8	Ripple @ Max Load <50mV & 66KHz operating frequency			✓
D1410-B/C	12VDC 10A Switch Mode with 10 way output splitter	No	10	No	10	Ripple @ Max Load <50mV & 66KHz operating frequency			✓
D1410-DR	12VDC 10A Desk/Rack Mount Switch Mode with 10 x 1A outputs	No	10	No	10	Desk/Rack Mountable + Ripple @ Max Load <50mV & 66KHz operating frequency			✓
D1420-DR	12VDC 20A Desk/Rack Mount Switch Mode with 20 x 1A outputs	No	20	No	20	Desk/Rack Mountable + Ripple @ Max Load <50mV & 66KHz operating frequency			✓
	24VDC								
D2401-A/B/D*	24VDC 1A Switch Mode - *Unboxed	No	1	No	1	DIN Mountable, Ripple @ Max Load <100mV & 66KHz operating frequency - DIN Mountable		✓	✓
D2402-A/B/D*	24VDC 2A Switch Mode with fault output - *Unboxed	No	2	No	1	DIN Mountable, Ripple @ Max Load <100mV & 66KHz operating frequency - DIN Mountable		✓	✓
D2403-A/B/D*	24VDC 3A Switch Mode with fault output - *Unboxed	No	3	No	1	Volt Free Fault Output + Ripple @ Max Load <100mV & 66KHz operating frequency - DIN Mountable		✓	✓
D2405-A/B	24VDC 5A Switch Mode with fault output	No	5	No	1	Volt Free Fault Output + Ripple @ Max Load <100mV & 66KHz operating frequency		✓	✓

Dycon Power Supplies

Dycon No.	Application	EN rating?	Amps	Battery charge	Outputs	Other Dycon features	Suitable for		
	24VAC						Intruder	Access	CCTV
D2904-A	24VAC 4A with 4 x 1A outputs - NOT switched mode	No	4	No	4	4 way on board splitter allows for 4 x 1A, 2 x 2A, or 1 x 4A fuse configuration			✓
D2904-IP66	24VAC 4A with 4 x 1A outputs in IP66 enclosure - NOT switched mode	No	4	No	4	4 way on board splitter allows for 4 x 1A, 2 x 2A, or 1 x 4A fuse configuration in IP66 enclosure			✓
	27-27.6VDC						Intruder	Access	CCTV
D2412-A/B/C	27-27.6VDC 2A Switch Mode with multi indication & fault output	No	2	Yes	1	Volt Free Fault Output + Ripple @ Max Load <100mV & 66KHz operating frequency		✓	✓
D2413-A/B/C	27-27.6VDC 3A Switch Mode with multi indication & fault output	No	3	Yes	1	Volt Free Fault Output + Ripple @ Max Load <100mV & 66KHz operating frequency		✓	✓
D2441-B/C/D*	27-27.6VDC 1A Switch Mode - *Unboxed	No	1	Yes	1	Volt Free Fault Outputs & remote on/off input + Ripple @ Max Load <100mV & 66KHz operating frequency - DIN Mountable		✓	✓
D2443-B/C	27-27.6VDC 3A Switch Mode with multi indication & fault outputs & remote on/off input	No	3	Yes	1	3 x Volt Free Fault Outputs & Remote On/Off Input + Ripple @ Max Load <100mV & 66KHz operating frequency		✓	✓
D2445-B/C	27-27.6VDC 5A Switch Mode with multi indication & fault outputs & remote on/off input	No	5	Yes	1	3 x Volt Free Fault Outputs & Remote On/Off Input + Ripple @ Max Load <100mV & 66KHz operating frequency		✓	✓
D2473-A/B	27-27.6VDC 3A Switch Mode with multi indication & fault output	No	3	No	1	Volt Free Fault Output + Ripple @ Max Load <100mV & 66KHz operating frequency		✓	✓
D2475-A/B/C	27-27.6VDC 5A Switch Mode with multi indication & fault outputs & remote on/off input	No	5	No	1	3 x Volt Free Fault Outputs & Remote On/Off Input + Ripple @ Max Load <100mV & 66KHz operating frequency		✓	✓

Housing Specifications

Box Type	Construction	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)	Max. Batteries
A	3mm mild steel, white epoxy painted	235	170	85	2.0	1 x 7Ahr or 8Ahr
B		260	320	90	3.5	3 x 7Ahr or 8Ahr - when 3 batteries are used, there is no physical space left for fitting any other device
C		345	430	90	4.5	2 x 18Ahr

Accessories

D15X8 8-way output splitter and D15X4-BNC 4-way splitter with 4 x BNC loop-through connectors

D15X8 output splitter connected to any Dycon D1500 Series ungraded power supply provides up to 8 individually-fused outputs. The D15X8 is supplied with 8 fuses rated at 0.5A, plus 2 fuses rated at 1A in a spares bag.

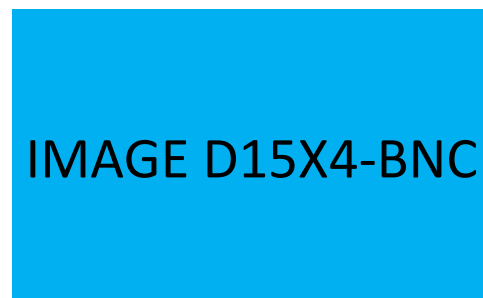
A red LED is provided for each output, which lights if the relevant fuse blows. A green LED illuminates when the correct input voltage is present. A 2-way Molex connector is provided to connect a remote LED, visible from outside the housing, to indicate if ANY fuse fails (**Note:** this LED is **NOT** supplied with the D15X8 splitter).

D15X4-BNC is 4-way splitter with 4 BNC loop-through connectors and can power up to 4 cameras with loop-through connections for signals.

The maximum load capacity of each of the individual outputs on the D15X8 and D15X4 should be no more than 5A; the maximum load on each input to both boards should be no more than 10A (*see note below*).

Both the D15X8 and D15X4 can be used with either 12vDC or 24vDC units.

Note: As 0.5A fuses are used on the D15X8, and 1.0A fuses on the D15X4, we suggest, in this instance, that these can be increased in value up to a maximum of 5A. Care should be taken not to exceed the maximum allowed input to each board of 10A or to exceed the rated load of the connected PSU.



IP66 Housing Specifications

Box Type	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)	Max. Batteries
Small	180	180	90	0.3	1 x 7Ahr (depending on the size)
Large	254	180	90	0.6	1 x 7Ahr

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Dycon leads the security and associated markets, through the UK design and manufacturer 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