

DYCON DATA



A Product Update for Dycon Dealers & Customers

Dycon makes the right connection!



Dycon's power supplies provide an output and supply a cable to charge suitable batteries, for most applications this is sufficient, but there are applications that require more than a single battery or where a larger battery is needed and that may have a different connector. The need to provide for these can delay an installation requiring the installer to prepare suitable cables on site or source them locally. To avoid this and speed up system installation, Dycon produces a series of professionally-produced cables with different types of connectors that suit most batteries. These options include cables that allows 2 batteries to be connected in parallel to increase the Amperage capacity from, for example, 7Ah to 14Ah, this works with the standard connector cable supplied with Dycon PSU's. Another version can also be used for other batteries with M5 connectors like 17 and 24Ah units. For 24VDC PSU's with a single battery connector a Dycon link cable connects the positive to negative and the battery cable connects to the remaining spade connectors to provide 24VDC.

The range includes: -

- Linking cables for 17 or 24Ah batteries with M5 connectors
- 1.2, 2.1, 7A, 17 & 24Ah battery cables & connectors
- Replaceable, ceramic fused, 1A power leads
- 2 & 3-way earthing cables
- Splitter cables
- Battery terminal converters

[Click here for a data sheet,](#)
or call +44 (0)1443 471 900 for prices and more details.

Dycon's smallest PSU housing

Smallest doesn't have to mean it's less featured, or its usefulness is limited, and certainly not in the case of the new Dycon AA box!

It is easy to make a very small housing, or is it? You can even fit it into a standard pattress box, but is there actually sufficient room there to comfortably fit more than a single cable, and can you easily secure those cables into their appropriate terminal with just one hand?



If the PCB is attached to the lid, do you have to leave it dangling on the end of the cable whilst trying to work on the connections? Dycon worked with installers to create the AA box which addresses all those points and quite a few others! Firstly, it is a surface mounted box so that it can fit easily onto any normal wall, no need to drill out a large hole to fit a pattress box; secondly, the PCB is secured firmly into the base, no longer do you have to try to screw in the first cable whilst holding the lid with the other hand. The AA box leaves you both hands free to make your connections.

An AA-box has ample space for more than just a single cable and has 12, 16 & 20mm knockouts plus a 25 x 12mm trunking knockout to make cabling easy from any direction. A hinged/ pivoted lid secured by a single screw, makes securing the lid a single-handed job, speeding up fitting and servicing. The tough steel construction has rounded corners to avoid dust traps and dirt build-up and it can be fitted horizontally or vertically.

The D2401-AA, the first Dycon power supply unit to use the new AA-box.

In 2022, Dycon launched its first AA-housed unit, the D2401-AA, a 24VDC 1A PSU, specially designed to power magnetic fire alarm door retainers and suitable for other general, 24 Volt DC applications. The D2401-AA can handle up to 8 double doors with 16 magnetic door retainers, based on 50 mA each, and has an externally visible status LED indicator.

Call +44 (0)1443 471 900 for more details or [Click here to download a D2401-AA data sheet](#)

There is even more to come, so watch this space in 2024 for further exciting AA-box developments.....

Dycon D1543 & back-up battery options



This version shows a D1543 fitted with a 3rd party 4-way CCTV/video BNC splitter.

A D1543 provides a full 3A power plus an additional, permanent, 300mA battery charging supply and yet costs relatively little more than an overstretched 1A PSU. It also provides three separate LED indicators to 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; a red LED illuminates, 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 can cause a door to remain closed or open, a frequent cause of personnel delays, plus frequent and expensive engineer call outs.

Part No.	Max. Battery Capacity
D1543-A	1 x 8Ah
D1543-B	2 x 8Ah
D1543-XB	2 x 8Ah or 2 x 17Ah
D1543-XLB	2 x 8Ah or 2 x 17Ah
D1543-XLBD	Up to 4 x 17Ah
D1543-C	2 x 7/8Ah or 2 x 17Ah
D1543-E	2 x 7/8Ah or 2 x 17Ah
D1543-G	2 x 24Ah/up to 4 x 17Ah
D1543-W	1 x 1.2Ah or 1 x 8Ah

Call +44 (0)1443 471 900 for more details or [Click](#) here to download a D1543 data sheet

Dycon and System resilience

The Oxford Dictionary defines ‘Resilience’ as ***The capacity to withstand or to recover quickly from difficulties.*** There has been much media coverage about Government and Industry’s reaction or inertia towards ‘System resilience’ for critical infrastructure. Much of this focuses on the complex equipment or systems being needed to always guarantee operation, but are we not in danger of failing to look at simpler, closer to home solutions to the security & fire industry’s day-to-day resilience needs?

Ample & reliable power is vital to resilience systems....

You can spend a lot of money on expensive resilience solution hardware and lose any benefit if the power that they require to operate fails. Much equipment that our industry installs uses 230VAC mains transformed down to 5, 12 or 24VDC, we then have batteries to back that up should the mains fail. Too often, installers are tempted to scrimp on providing enough power just to save a small amount of installation cost which means that they are not catering for increasing power problems that the current World situation is creating. They simply buy a 12VDC 1A PSU without checking that is really enough to cater for our changing world. They don’t check whether it provides enough to drive all the equipment the system needs and have sufficient charging current to recharge the batteries between mains problems. Dycon offers cost-effective, 3, 5, 8, 10 & 20A units that ensure there is ample power to drive even the largest system, but which also offer a choice of 300mA, 500mA or 1A charging currents to ensure that the batteries also meet the real standby needs.

D2500, a Dycon practical resilience power solution.....



What if your PSU fails? Can you afford to lose the whole system? Dycon offers a unique, proven solution the D2500, a low-cost, high benefit solution. The D2500 module is connected to the output of the main PSU, a second identical PSU is also connected to it. Should the main PSU fail, the D2500, automatically and seamlessly, connects the back-up PSU to ensure continuity without breaks; simple, low cost, but effective! [Click](#) here for a D2500 data sheet.

Any questions? Call +44(0)1443 471 900

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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.

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