

# IP65 Power Solutions

A full range of 12-24VDC 1A-10A Power Solutions, with or without battery backup, in an IP65-W weather-proof housing.



*Vertically mounted*



*D1545-W version with a Dycon 5A PSU and a 7Ah VRLA Battery*



*Horizontally mounted*



*Automatic pressure valve vents any battery charging gases*



*Wall fixing brackets included*

- Outdoor, IP65, climate & temperature resistant
- Suitable for use with most Dycon power modules
- Available with DIN Rail fixings
- Vertical or horizontal mounting options
- Unique multi-way fixings simplify installation
- Impact resistant ABS construction

The increasing demand for security and monitoring equipment to be used in external locations has meant installers and specifiers need to consider how best to power these devices locally and safely. Dycon has created a new IP65 climate-resistant housing system that can be used with the majority of its switched-mode power supply modules with or without battery backup. The housing is thermo-resistant ABS and impact resistant to IK07/8, making it suitable for use in most external locations, it is also ideal for use in loft/roof spaces, garages, and warehouses. Dycon's unique 2 mm steel backplate has been ready prepared to accept the majority of its power supply modules so that you can now choose the correct power system for the job rather than have to compromise to get moisture and temperature protection. Innovative rear fixings brackets allow for either vertical or horizontal mounting and remove the need to drill holes into the housing thus compromising its IP65 integrity. 2x 20 mm glands are included with each W-box and, after drilling suitable 20mm holes, can be fitted wherever required, on the sides, bottom or top. Location in direct sunlight should be avoided with battery backed-up units. Battery charging models are supplied with a water-proof pressure valve to safely vent any gases created during charging. The DR-60 series DIN Rail versions have an additional 85 mm for other DIN rail equipment or connectors.



**DYCON**  
power solutions

# IP65-W Power Supply Solutions

## 12/13.8VDC and 24/27.6VDC IP65 Boxed Power Supplies

Dycon's IP65 power supplies comply with all necessary regulations, meet the specific requirements of specifiers and integrators, and provide reliable, easy to fit power solutions in arduous climatic situations.

The housing itself is suitable for horizontal or vertical mounting making it ideal for internal and external applications with an IP65 rating. The multi-purpose fixing plate supports a wide range of Dycon 12 and 24VDC PSUs with capacities of 1, 2, 3, 5, and 10 Ampere.

### **Battery Charging**

12VDC & 24VDC models are available with or without battery charging capability.

### **Anti-Tamper Option**

A number of the PSU's have an on-board spring tamper switch activated by removal of the front lid.

### **Indicators.**

As standard, the housing has no indicators visible from the outside to avoid drawing attention to it.

### **Fault Outputs**

A range of PSU's with fault outputs is available. These show '**Mains OFF**', '**Battery Fault**', and '**PSU Fault**' and can be used for optional indicators or connected to other equipment to remotely signal the fault conditions.

### **Fixings**

Two powder-coated steel brackets with stainless steel screws to avoid drilling through the housing are included. These can be fitted on the sides or on the top and bottom. The brackets are reversible allowing the use of the eyelet at the top and a slot to be used at the bottom, these allow for easy adjustment when fitting.

Alternatively, the 4 allocated fixing positions can be drilled through from the inside of the box without impacting its IP65 rating.

### **Fixing plate**

A removable zinc-plated 2 mm steel plate is supplied and comes with fixings for various Dycon 12VDC, 24VDC, and 24VAC power supplies, with or without battery charging and fault outputs.

### **DIN rail**

Standard DIN-rail can be fitted horizontally or vertically onto the steel fixing plate. The Dycon DR-60-12 and 24VDC DIN rail PSU's can be fitted along with other DIN rail equipment and connectors. The standard length is 165 mm.

### **Battery**

For 12VDC applications, the housing has space for 1 x 7 or 8 Ampere 12VDC VRLA battery in addition to the power supply

For 24VDC applications, the housing has space for 2 x 2.1A Ampere 12VDC VRLA batteries in addition to the power supply

2 x Tie wraps with a quick-release facility are supplied and can be fitted through slots in the fixing plate. These avoid batteries falling out by accident when the lid is removed.

All PSU's with battery charging capability have battery leads included.

### **Safety Valve**

Units with battery charging are fitted with a unique automatic pressure valve that maintains the weatherproofing but regulates the pressure required for VRLA battery charging applications and to safely vent any gases created during charging.

### **Glands**

2 x 20 mm glands are included with each box, these can be fitted wherever required, on the sides, bottom or top.

# Ready-Assembled IP65-W Power Supply Solutions

Part No.	Product Type	Battery Charging	VRLA Batteries capability	EN 50131 Grading	Fault Outputs / indications	Remote Switching Input
D1410-W	12VDC 10 x 1A	No	N/A	No	Output tripped	No
D1521-W	13.8VDC 1A	Yes	1 x 7/8 Ah 12V	No	Both	No
D1522-W	13.8VDC 2A	Yes	1 x 7/8 Ah 12V	No	Both	No
D1532-W	Smart 13.8VDC 3A	Yes	1 x 7/8 Ah 12V	No	Both	No
D1541-W	13.8VDC 1A	Yes	1 x 7/8 Ah 12V	No	Indicators only	No
D1542-W	13.8VDC 2A	Yes	1 x 7/8 Ah 12V	No	Indicators only	No
D1543-W	13.8VDC 3A	Yes	1 x 7/8 Ah 12V	No	Indicators only	No
D1545-W	13.8VDC 5A	Yes	1 x 7/8 Ah 12V	No	Indicators only	No
D1553-W	Smart 13.8VDC 3A	Yes	1 x 7/8 Ah 12V	No	Both	Yes
D1555-W	Smart 13.8VDC 5A	Yes	1 x 7/8 Ah 12V	No	Both	Yes
D1558-W	Smart 13.8VDC 8A	Yes	1 x 7/8 Ah 12V	No	Both	Yes
D1573-W	12VDC 3A	No	N/A	No	Output only	Yes
D1575-W	12VDC 5A	No	N/A	No	Output only	Yes
D1632-W	110VAC / 13.8VDC 3A	Yes	1 x 7/8 Ah 12V	No	Both	No
D2401-W	24VDC 1A	No	N/A	No	Output only	No
D2402-W	24VDC 2A	No	N/A	No	Output only	No
D2403-W	24VDC 3A	No	N/A	No	Output only	No
D2412-W	24VDC 2A	Yes	2 x 2.1Ah 12V	No	No	No
D2413-W	24VDC 3A	Yes	2 x 2.1Ah 12V	No	No	No
D2441-W	Smart 27.6VDC 2A	Yes	2 x 2.1Ah 12V	No	Both	Yes
D2443-W	Smart 27.6VDC 3A	Yes	2 x 2.1Ah 12V	No	Both	Yes
D2904-W	27VAC 4A (4 x 1A)	No	N/A	No	No	No
DR-60-12-W	DIN-rail 12VDC 4.5A	No	N/A	No	No	No
DR-60-24-W	DIN-rail 24VDC 2.5A	No	N/A	No	No	No
W-box	Housing-only	N/A	N/A	N/A	N/A	N/A



Horizontal-mounting rear view



Vertical-mounting rear view

# Dycon IP65-W Housing

## Specifications

Material	Thermo-resistant ABS
Construction	Double insulation, smooth walls
Material Sealing Class	EPDM
Protection	IP65 according to EN60529
Glow Wire Test	650°C
Impact Resistance	IK07, IK08
External Dimensions (L x W x H)	240 x 190 x 90mm
Carton Box dimensions	250 x 205 x 95 mm
Colour	Light grey RAL7035
Fixing bracket	2 x fixing brackets external powder-coated 2mm steel
Lid	Fixed with 4 front screws
Internal metal fixing plate	Zinc plated and powder coated 2mm steel
Total weight (including internal metal fixing plate, brackets, cable glands, lid fixing screws, safety-valve & cable ties)	1.05kg



*DR-60-12 12VDC 4.5A unit & a DIN connector fitted to a 165mm DIN-rail*



*2 x Battery restraining ties*



*Multiway fixing positions*



*20mm glands included with each W-box*

### Dycon Power Solutions Ltd

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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.

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