

# DR-75 Series

## General Purpose, Switched-Mode, DIN-rail Power Supplies



- Integral Din-rail mount
- High Energy efficiency
- 12VDC, 24VDC and 48VDC versions
- Adjustable DC Voltage ( $\pm 10\%$ )
- Tough aluminium body
- LED Power indicator

Dycon's DR-75 Series DIN-rail power supplies are a range of universal AC voltage input (110VAC to 230VAC), switched-mode power supplies with rated output voltages of 12VDC, 24VDC and 48VDC, with current outputs of 6.3 Amperes for the 12VDC., 3.2 Amperes for the 24VDC units and 1.6 Amperes for the 48VDC versions. These units have a tough, but attractive, brushed aluminium body with an LED power indicator for visual verification of the correct DC output operation.

Typical efficiency is 79% for the 12VDC, 81% for the 24VDC units and 84% for the 48VDC versions, meaning they consume far less electricity than conventional linear units. An integral potentiometer enables the DC output voltage to be adjusted  $\pm 10\%$  where required. Designed to be installed on standard DIN-rail: TS-35/7.5 or TS35/15, these lightweight, high-efficiency units have built-in protection against short circuit, over-voltage and over-load and are cooled by free air convection, eliminating the need for expensive, additional cooling fans.

# 12VDC, 24VDC & 48VDC Switched-Mode, DIN-Rail Power Solutions

## Specifications

Model No.		DR-75-12	DR-75-24	DR-75-48
Output	DC voltage	12V	24V	48V
	Voltage tolerance	±1%	±1%	±1%
	Rated current	6.3A	3.2A	1.6A
	Current range	0-6.3A	0-3.2A	0-1.6A
	Rated power	76W	76.8W	76.8W
	Ripple & noise	100mvp-p	150mvp-p	200mvp-p
	DC voltage ADJ. range	±10%	±10%	±10%
Input	Voltage range	90-264VAC : 127-373VDC		
	Frequency	47-63Hz		
	AC current	1.2A/110VAC : 0.65A/220VAC		
	Efficiency	79%	81%	84%
	Inrush current	Cold start current 20A/110VA : 40A/220VAC		
	Leakage current	< 1mA/240VAC		
Protection	Over-load	Rated output power 110%-150% start over load protection Protection type: hiccup mode, auto-recovery after fault condition is removed		
	Over-voltage	15.6-17.8V	27.8V-31.6V	54V-57.8V
Environment	Working temperature	-10°C - +60°C		
	Humidity	20%-90%RH		
	Storage temperature	-20°C - +85°C,		
Safety	Humidity	10%-95%RH non-condensing		
	Withstand Vibration	10-500HZ : 2G10min/1cycle : period for 60 minutes, each axis		
Standards	Withstand voltage	I/P-O/P : 1.5KVAC I/P-FG : 1.5KVAC O/P-FG : 0.5KVAC		
	Isolation resistance	I/P-O/P : I/P-FG : O/P-FG : 100M ohms/500VDC		
Others	Safety standard	Compliance to UL1012		
	EMC standard	Compliance to EN55022, CLASS A		
	Weight	0.6kg		
Note	Dimensions	55.5 x 125 x 100mm (l x w x h)		
	Packing	0.6kg/20 pieces/13kg		
	1) All parameters NOT specifically mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2) Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair wire terminated with a 0.1µf & 47µf parallel capacitor. 3) Tolerance: includes line and load regulation.			

### Dycon Power Solutions Ltd

Unit A, Cwm Cynon Business Park, Mountain Ash,  
CF45 4ER, United Kingdom.

#### For more information about the Dycon products:

website: [www.dyconpower.com](http://www.dyconpower.com)

email: [sales@dyconpower.com](mailto:sales@dyconpower.com)

#### 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.

DR-75 Series data sheet 19012023 V6