

# DR-60 Series

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



- Din-rail mount
- High Energy efficiency
- 12VDC or 24VDC version
- Adjustable DC Voltage ( $\pm 10\%$ )
- Low profile & lightweight unit
- LED Power indicator

Dycon's DR-60 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 and 24VDC and current outputs of 2.5 Amperes for the 24VDC units, 4.5 Amperes for the 12VDC.

Typical efficiency is 84% for the 24VDC and 82% for the 12VDC units, 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 small volume, low-profile, 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.

An LED power indicator is also included for visual verification of the correct DC output operation.

# General Purpose Switched-Mode Power Solutions

## 12VDC-4.5A & 24VDC-2.5A DIN-rail Power Solutions

### Specifications

Model		DR-60-12	DR-60-24
Output	DC voltage	12V	24V
	Voltage tolerance	±1%	±1%
	Rated current	4.5A	2.5A
	Current range	0~3.5A	0~2.5A
	Rated power	54W	60W
	Ripple & noise	100mvp-p	150mvp-p
	DC voltage ADJ. range	±10%	±10%
Input	Voltage range	90~264VAC , 127~373VDC	
	Frequency	47~63HZ	
	AC current	1.2A/110VAC , 0.65A/220VAC	
	Efficiency	82%	84%
	Inrush current	Cold start current 25A/115VAC , 50A/230VAC	
	Leakage current	< 1mA/240VAC	
Protection	Over-load	Rated output power105%~150% start over load protection protection type: hiccup mode, auto-recovery after fault condition is removed	
	Over-voltage	15.6~17.8V	30.6~33.2V
Environment	Working temp, humidity	-20°C~+60°C , 20%~90%RH	
	Storage temp, humidity	-40°C~+85°C , 10%~95%RH non-condensing	
	Withstand vibration	10~500HZ , 2G10min/1cycle , period for 60 minutes, each axis	
Safety	Withstand voltage	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC	
	Isolation resistance	I/P-O/P, I/P-FG, O/P-FG:100Mohms/500VDC	
Standards	Safety standard	Compliance to UL1012	
	EMC standard	Compliance to EN55022 , CLASS A	
Others	Dimensions	78*93*56mm(L*W*H)	
	Weight/packing	0.3kg/48pcs/15.4kg/0.03m <sup>3</sup> /1.07CUFT	
Note	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 0.1uf & 47uf 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.

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