

DR-75/120/240/480

DIN RAIL TYPE SWITCH
POWER SUPPLY

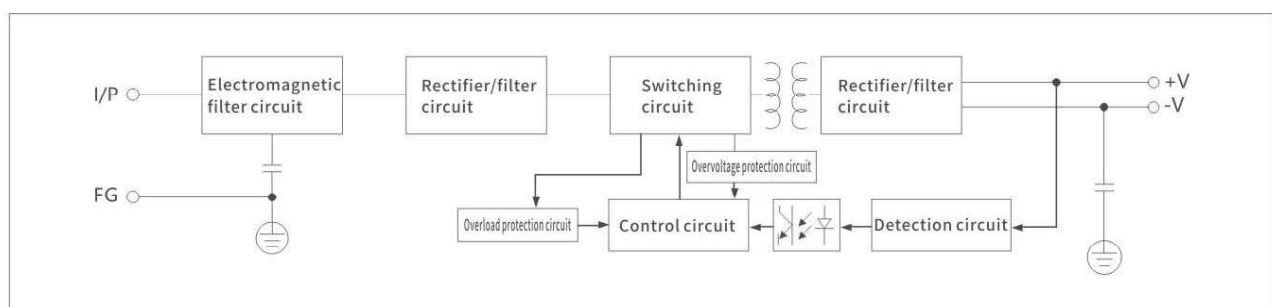


Product overview

The DR-75, 120, 240, 480 series are 75, 120, 240, 480W single group output enclosed power supplies that use 85 to 264VAC full range AC input. The entire series provides 5V, 12V, 15V, 24V, 36V and 48V output.

In addition to the efficiency of up to 91.5%, the design of the metal mesh enclosure enhances the heat dissipation capability, allowing the DRP-75, 120, 240, 480 to operate in the temperature range of -10 °C to +50 °C without a fan. Making it easy for the terminal system to meet international energy requirements. The DRP-75, 120, 240, 480 have complete protection functions; It complies with TUV EN60950-1, EN60335-1, EN61558-1/-2-16, UL60950-1 and GB4943 international safety regulations. The DRP-75, 120, 240, 480 series provide a cost-effective solution for various industrial applications.

Principle diagram



Technical parameter

Type	Technical indicators			
Output	DC voltage	12V	24V	48V
	Ripple and noise ①	<120mV	<150mV	<240mV
	Voltage regulation range	±10%		
	Voltage accuracy	±2%	±1.0%	
	Linear adjustment rate	±0.5%		
	Load adjustment rate	±1%		
Input	Voltage range/frequency	85-264VAC 47Hz~63Hz (120VDC~370VDC)		
	Impulse current	110VAC 20A 220VAC 40A		
	Leakage current	≤1mA 240VAC		
Protection characteristics	Overload protection	≥ 105% - 150% type: protection mode: hiccup mode automatic recovery after abnormal conditions are removed		
	Short circuit protection	+VO drops to the undervoltage point, closes, and automatically recovers after the abnormal output condition is removed		
Environment	Operating temperature, humidity	-10°C~+50°C; 20%~90RH		
	Storage temperature, humidity	-20°C~+85°C; 10%~95RH		
Security	Withstand voltage	Input - output : 1.5KVAC input - case : 1.5KVAC output - case : 0.5KVAC duration :1 minute		
	Isolation resistor	Input - output and input - shell, output - shell: 500 VDC / 100 mΩ		
Other	Size	65.5*100*125.2mm(L*W*H)		
	Net weight/gross weight	600g/650g		
Remarks	<p>① Ripple and noise measurement method: use a 12 twisted pair, and connect 0.1uF and 47uF capacitors in parallel at the terminal, and measure at 20MHz bandwidth.</p> <p>② The efficiency is tested at the input voltage of 230VAC, rated load and ambient temperature of 25 °C. Precision: including setting error, linear adjustment rate and load adjustment rate.</p> <p>Test method of linear regulation: test from low voltage to high voltage under rated load.</p> <p>Load adjustment rate test method: from 0% to 100% of rated load.</p> <p>The starting time is measured under the cold start state. Fast and frequent startup and shutdown may increase the starting time. When the operating altitude is higher than 2000 meters, the operating ambient temperature needs to be reduced by 5 °C/1000 meters.</p>			

Type	DR-75		
DC voltage	12V	24V	48V
Rated current	6.3A	3.1A	1.5A
Rated power	76W	76W	76W
Start up time	1800ms, 60ms, 12ms : 110VAC/100ms, 60ms, 60ms : 220VAC		
Efficiency (typical) ②	>86%	>86%	>86%
Operating current	<1.2A 110VAC <0.8A 220VAC		

Type	DR-120		
DC voltage	12V	24V	48V
Rated current	10A	5A	2.5A
Rated power	120W	120W	120W
Start up time	500ms, 70ms, 32ms : 110VAC/500ms, 70ms, 36ms : 220VAC		
Efficiency (typical) ②	>86%	>88%	>90%
Operating current	<2.6A 110VAC <1.6A 220VAC		