DR-15/30/45/60

DIN RAIL TYPE SWITCH POWER SUPPLY



Product overview

The DR-30、45、60 series are 30、45、60 W single group output closed type 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 an efficiency of up to 88%, the design of the environmentally friendly flame-retardant housing enhances the heat dissipation capability, allowing the DR-30、45、60 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 DR-30、45、60 have complete protection functions; It complies with TUV EN60950-1, EN60335-1、EN61558-1/-2-16、UL60950-1 and GB4943 international safety regulations. The DR-30、45、60 series provide a cost-effective solution for various industrial applications.

Principle diagram



DR-15 SERIES

Din Rail Power Supply



	Туре		Technical indicators		
	DC voltage	5V	12V	24V	
	Rated current	2.4A	1.25A	0.63A	
	Rated power	12W 15W		15.2W	
	Ripple and noise $^{}$	< 80mV	< 120mV	< 150mV	
Output	Voltage accuracy	±2%	±1	%	
	Voltage regulation range	•	±10%		
	Load adjustment rate		±1%		
	Linear adjustment rate		±1%		
	Voltage range / frequency	85-264VAC 47Hz~63Hz (120VDC~370VDC)			
	Efficiency (typical) ^②	77%	84%	85%	
Input	Working current	<	AC		
	Shock Current	110VAC 15A, 220VAC 30A			
	Start,Rise,Hold time	100ms, 30ms, 21ms: 110VAC/100ms, 30ms, 100ms: 220			
Ductosticu	Overload protection	105%-150% Type:production mode:burp modde automatic recovery after t abnormal condition is lifted			
Protection	Short circuit protection	•	mal condition will be restor loved after the power is res	-	
Environmental	Working temp. and humidity		-10°C ~+50°C ; 20%~90R	Н	
Environmentar	Storage temp.and humidity	-20°C ~+85°C ; 10%~95RH			
Safety	Pressure Resistance	O/P-I/P,I/P-O/P:3KVAC			
Jalety	Isolation Resistance	I/P-O/P,	O/P-Shell,O/P-Shell: 500\	/DC/100MΩ	
Other	size	25*93*56mm			
Other	Net weight / gross weight	100/105g			

DR-30/45/60 SERIES DIN RAIL TYPE SWITCH POWER SUPPLY



Туре		Technical indicators						
	DC voltage	5V	12V	15V	24V			
	Ripple and noise ①	<80mV	<120mV	<120mV	<150mV			
Output	Voltage regulation range	±10%						
	Voltage accuracy	±2% ±1.0%						
	Linear adjustment rate	<±1%						
	Start up time	100ms、	30ms、21ms:110	/AC/100ms、30ms、	100ms: 220VAC			
lanut	Voltage range/frequency		85-264VAC 47Hz	~63Hz (120VDC~37	0VDC)			
Input	Efficiency (typical) ②	>78%	>81%	>83%	>84%			
	Impulse current	110VAC 15A 220VAC 30A						
Protection	Overload protection	≥ 105% - 150% type: protection mode: hiccup mode automatic recovery after abnormal conditions are removed						
characteristics	Short circuit protection	+VO drops to the undervoltage point, closes, and automatically recovers after the abnormal output condition is removed						
Fasilianaant	Operating temperature、humidity	-10°C~+50°C; 20%~90RH						
Environment	Storage temperature、humidity	-20°C~+85°C; 10%~95RH						
Security	Withstand voltage	Input output 3KVAC for 1 minute						
Security	Isolation resistor	Input - output and input - shell, output - shell: 500 VDC / 100 m Ω						
04	Size	78*93*56mm(L*W*H)					
Other	Net weight/gross weight	270g/290g						
Remarks	 Ripple and noise measurin parallel at the terminal, a The efficiency is tested a Precision: including setting Test method of linear regul Load adjustment rate test r The starting time is measurincease the starting time ambient temperature need 	nd measure at t the input volt gerror, linear a ation: test from nethod: from 0 red under the c . When the op	20MHz bandwidth. age of 230VAC, rate djustment rate and n low voltage to hig % to 100% of rated old start state. Fast erating altitude is	d load and ambien load adjustment ra h voltage under rat load. and frequent start higher than 2000	t temperature of 25 °C. ate. ed load. :up and shutdown may			

Туре		DR	-30		Туре		DR	-45	-	Туре		DR	-60	
DC voltage	5V	12V	15V	24V	DC voltage	5V	12V	15V	24V	DC voltage	5V	12V	15V	24V
Rated current	ЗA	2.5A	2A	1.25A	Rated current	5A	3.5A	2.8A	2A	Rated current	6.5A	4.5A	4A	2.5A
Rated power	15W	30W	30W	30W	Rated power	25W	42W	42W	48W	Rated power	32.5W	54W	60W	60W
Load adjustment rate	±1%	±1%	±1%	±1%	Load adjustment rate	±1%	±1%	±1%	±1%	Load adjustment rate	±1%	±1%	±1%	±1%
Operating current	<0.8A	110VAC	<0.4A	220VAC	Operating current	<1A	L10VAC	<0.5A2	220VAC	Operating current	<1.2A	110VAC	<0.8A	220VAC

DR-75/120/240/480

DIN RAIL TYPE SWITCH POWER SUPPLY

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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 costeffective solution for various industrial applications.

Principle diagram



DR-75/120 SERIES DIN RAIL TYPE SWITCH POWER SUPPLY



Туре		Technical indicat	tors				
	DC voltage	12V	24V	48V			
	Ripple and noise ①	<120mV	<150mV	<240mV			
Output	Voltage regulation range	±10%					
output	Voltage accuracy	±2% ±1.0%					
	Linear adjustment rate	±0.5%					
	Load adjustment rate	$\pm 1\%$					
	Voltage range/frequency	85-264VAC 47Hz	~63Hz (120VDC~370VDC)				
Input	Impulse current	110VAC 20A 22					
	Leakage current	≤1mA 240VAC					
Protection	Overload protection	≥ 105% - 150% type: protection mode: hiccup mode automatic recovery after abnormal conditions are removed					
characteristics	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					
Environment	Storage temperature、humidity	-20°C~+85°C; 10%~95RH					
Security	Withstand voltage	Input - output : 1.5	KVAC input - case : 1.5KVAC out	put - case: 0.5KVAC duration :1 minute			
Security	Isolation resistor	Input - output ar	nd input - shell, output - shel	ell: 500 VDC / 100 mΩ			
Other	Size	65.5*100*125.2m	וm(L*W*H)				
Other	Net weight/gross weight	600g/650g					
Remarks	in parallel at the terminal, a ② The efficiency is tested a Precision: including setting Test method of linear regul Load adjustment rate test r The starting time is measu	nd measure at 20 t the input voltag gerror, linear adju ation: test from lo nethod: from 0% red under the colo . When the oper	MHz bandwidth. ge of 230VAC, rated load an ustment rate and load adju ow voltage to high voltage to 100% of rated load. d start state. Fast and freq ating altitude is higher th				

Туре	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、12r	ms: 110VAC/100ms、6	0ms、60ms:220VAC			
Efficiency (typical) (2)	>86%	>86%	>86%			
Operating current	<1.2A 110VAC <0.8A 220VAC					

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

DR-240/480 SERIES

DIN RAIL TYPE SWITCH POWER SUPPLY



Туре		Technical indicators			
	DC voltage	24V	48V		
	Ripple and noise ①	<120mV	<240mV		
0.1.1	Voltage accuracy	±1%	±1%		
Output	Voltage regulation range		±10%		
	Load adjustment rate		±1%		
	Linear adjustment rate		±0.5%		
	Efficiency (typical) ②	>84%	>86%		
Input	Impulse current	110VAC 18A 220VAC 50A			
	Leakage current	<1.5mA/240VAC			
	Overload protection	≥ 105% - 150% type: protection abnormal conditions are removed	mode: hiccup mode automatic recovery after		
Protection	Overvoltage protection	When the output voltage is greater than 135%, the shutdown output will automatically recover after the abnormal condition is removed			
characteristics	Short circuit protection	+VO drops to the undervoltage p	ooint and the output is closed After the abnormal r supply restarts and the automatic recovery is resumed		
	Over temperature protection	>85° turn off output after the temperature drops, the power supply is restarted and restore			
	Operating temperature、humidity	-10°C~+50°C; 20%~90RH			
Environment	Storage temperature、humidity	-20°C~+85°C; 10%~95RH			
C	Withstand voltage	Input - output : 1.5KVAC input -	case : 1.5KVAC output - case: 0.5KVAC duration :1 minut		
Security	Isolation resistor	Input - output and input - sh	ell, output - shell: 500 VDC / 100 mΩ		
	Size	125.5*100*125.2mm(L*W*H)			
Other	Net weight/gross weight	1200g/1230g			
Remarks	in parallel at the terminal, a ② The efficiency is tested a Precision: including setting Test method of linear regul Load adjustment rate test m The starting time is measur increase the starting time	nd measure at 20MHz bandw t the input voltage of 230VAG g error, linear adjustment rat ation: test from low voltage nethod: from 0% to 100% of red under the cold start state	C, rated load and ambient temperature of 25 °C te and load adjustment rate. to high voltage under rated load. rated load. e. Fast and frequent startup and shutdown ma ide is higher than 2000 meters, the operatin		

Туре	DR-240				
DC voltage	24V	48V			
Rated current	10A	5A			
Rated power	240W	240W			
Start up time	85-264VAC 47Hz~6	3Hz (120VDC~370VDC)			
Efficiency (typical) ②	2000ms、30ms、20ms: 220VAC/1200ms、30ms、10ms: 115VAC				
Operating current	<4A 110VAC <2.5A 220VAC				

Туре	DR-480				
DC voltage	24V	48V			
Rated current	20A	10A			
Rated power	480W	480W			
Start up time	180-264VAC	47Hz~63Hz (120VDC~370VDC)			
Efficiency (typical) ②	3000ms, 100ms, 22ms	: 110VAC/1500ms、1000ms、28ms: 220VAC			
Operating current	<7.5A 1	10VAC <4.5A 220VAC			