NDR-75/120

DIN RAIL TYPE SWITCH
POWER SUPPLY



Product overview

The NDR-75、120 series is a 75、120W single group output enclosed power supply with a full range of AC inputs from 190 to 240VAC. The entire series provides 12V、15V、24V、36V and 48V output.

In addition to the efficiency of up to 90%, the design of the metal mesh enclosure enhances the heat dissipation capability, allowing the NDR-75、120 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. NDR-75、120 has complete protection functions; It complies with TUV EN60950-1、EN60335-1、EN61558-1/-2-16、UL60950-1、and GB4943 international safety regulations. The NDR-75、120 series provides a cost-effective solution for various industrial applications.

Principle diagram



NDR-75 SERIES

DIN RAIL TYPE SWITCH POWER SUPPLY



Туре	Technical indicators				
	DC voltage	12V	24V	48V	
Output	Rated current	6.3A	3.2A	1.6A	
	Rated power	75.6W	76.8W	76.8W	
	Ripple and noise ①	<120MV	<120MV	<150MV	
	Voltage accuracy	±2%	±1%	±1%	
	Output voltage regulation range	±10%			
	Load adjustment rate	±1%			
	Linear adjustment rate	±0.5%			
Input	Voltage range	190-240VAC 47hz-63hz (127vdc-370vdc: DC input can be realized by connecting AC / L +, AC / N (
	Efficiency (typical) ②	>86%	>88%	>89%	
	Working current	<1.45A 110VAC <0.9A 220VAC			
	Impulse current	110VAC 20A, 220VAC 35A			
	Start rise, hold time	500ms、70ms、32ms:110VAC/500ms、70ms、36ms:220VAC			
	Overload protection	105% - 150% type: protection mode: automatic recovery after removing the abnormal condition of constant current mode			
Protection	Overvoltage protection	When the output voltage is more than 135%, the output will be turned off. It will recover automatically after the abnormal conditions are removed			
characteristics	Short circuit protection	+VOWhen the abnormal condition of output is released, it will recover automatically			
Environment	Working temperature and humidity				
	Storage temperature and humidity	-20°C~+85°C; 10%~95RH			
	Withstand voltage	Input output: 3kVac input ground: 1.5kVac output ground: 0.5kvac for 1 minut			
Safety/EMC	Leakage current	<1mA/240VAC			
	Isolation resistance	Input output, input shell, output shell: 500VDC / 100M Ω			
Other	size	40*125*113mm(L*W*H)			
	Net weight / gross weight	707g/750g			
Remarks	 ①Ripple and noise measurement method: use a 12 twisted pair, and connect 0.1uF and 47uF capacitor in parallel at the terminal, and measure at 20MHz bandwidth. 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. Test method of linear regulation: test from low voltage to high voltage under rated load. Load adjustment rate test method: from 0% to 100% of rated load. 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. 				

NDR-120 SERIES

DIN RAIL TYPE SWITCH POWER SUPPLY



Туре		Technical indicators			
	DC voltage	12V	24V	48V	
Output	Rated current	10A	5A	2.5A	
	Rated power	120W	120W	120W	
	Ripple and noise ①	<120MV	<120MV	<150MV	
	Voltage accuracy	±2%	±1%	±1%	
	Voltage regulation range	±10%			
	Load adjustment rate	±1%			
	Linear adjustment rate	±0.5%			
Input	Voltage range	190-240VAC47Hz~63Hz (120VDC~370VDC: By connection AC/L(+), AC/N(-)enables DC input			
	Efficiency (typical) ②	>86%	>88%	>89%	
	Operating current	<2.25A 110VAC <1.3A 220VAC			
	Impulse current	110VAC 20A, 220VAC 35A			
	Start up time	500ms、70ms、32ms:110VAC/500ms、70ms、36ms:220VAC			
	Leakage current	<1mA 240VAC			
Protection characteristics	Overload protection Overvoltage protection	≥ 105% - 150% type: protection mode: hiccup mode automatic recovery after abnormal conditions are removed When the output voltage is greater than 135%, the shutdown output will automatically recover after the abnormal condition is removed			
	Short circuit protection	+VO drops to the undervoltage point and the output is closed After the abnormal condition is removed, the power supply restarts and the automatic recovery is resumed			
	Operating temperature、humidity				
Environment	Storage temperature、humidity	-20°C~+85°C; 10%~95RH			
	Withstand voltage	Input - output : 1.5KVAC input - case : 1.5KVAC output - case: 0.5KVAC duration :1 minute			
Security	Isolation resistor	Input - output and input - shell, output - shell: 500 VDC / 100 m Ω			
	Size	40*125*113mm(L*W*H)			
Other	Net weight/gross weight	707g/750g			
Remarks	 ①Ripple and noise measurement method: use a 12 twisted pair, and connect 0.1uF and 47uF capacitor in parallel at the terminal, and measure at 20MHz bandwidth. 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. Test method of linear regulation: test from low voltage to high voltage under rated load. Load adjustment rate test method: from 0% to 100% of rated load. 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. 				

NDR-240

DIN RAIL TYPE SWITCH POWER SUPPLY





Product overview

The NDR -240 series is a 240W single group output closed type power supply that uses 200 to 240VAC 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 NDR -240 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. NDR-240 has complete protection functions; It complies with TUV EN60950-1、EN60335-1、EN61558-1/-2-16、UL60950-1 and GB4943 international safety regulations. The NDR -240 series provides a cost-effective solution for various industrial applications.

Principle diagram



NDR-240 SERIES

DIN RAIL TYPE SWITCH POWER SUPPLY



Туре		Technical indicators		
	DC voltage	24V	48V	
Output	Rated current	10A	5A	
	Rated power	240W	240W	
	Ripple and noise ①	<150MV	<150MV	
	Voltage accuracy	±1%	±1%	
	Voltage regulation range	±10%		
	Load adjustment rate	±1%		
	Linear adjustment rate	土0.5%		
Input	Voltage range	200-240VAC47Hz~63Hz (120VDC~370VDC: By connection AC/L(+), AC/N(-)enables DC input		
	Efficiency (typical) ②	>86%	>90%	
	Power factor	PF>0.98/115VAC,PF>0.95 /230VAC		
	Operating current	<2.25A 110VAC <1.3A 220VAC		
	Impulse current	110VAC 20A, 220VAC 35A		
	Start up time	3000ms、100ms、22ms:110VAC/1500ms、100ms、28ms:220VAC		
	Leakage current	<1mA 240VAC		
	Overload protection	≥ 105% - 150% type: protection mode: hiccup mode automatic recovery after abnormal conditions are removed		
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 point and the output is closed After the abnormal condition is removed, the power supply restarts and the automatic recovery is resumed		
	Over temperature protection			
	Operating temperature、humidity	-10°C~+50°C; 20%~90RH		
Environment	Storage temperature、humidity	-20°C~+85°C; 10%~95RH		
Focurity	Withstand voltage	Input - output : 1.5KVAC input - case : 1.5KVAC output - case: 0.5KVAC duration :1 minute		
Security	Isolation resistor	Input - output and input - shell, output - shell: 500 VDC / 100 $m\Omega$		
O4b	Size	63*125*113mm(L*W*H)		
Other	Net weight/gross weight	1000g/1100g		
Remarks	 ①Ripple 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. 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. Test method of linear regulation: test from low voltage to high voltage under rated load. Load adjustment rate test method: from 0% to 100% of rated load. 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. 			

NDR-480

DIN RAIL TYPE SWITCH POWER SUPPLY





The NDR-480 series is a 480W single group output closed type power supply that uses200 to 240VACfull range AC input. The entire series provides 5V、12V、15V、24V、36V and 48V output.

199999999

In addition to the efficiency of up to 91.5%, the design of the metal mesh enclosure enhances the heat dissipation capability, allowing the NDR-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. NDR-480 has complete protection functions; It complies with TUV EN60950-1、EN60335-1、EN61558-1/-2-16、UL60950-1 and GB4943 international safety regulations. The NDR-480 series provides a cost-effective solution for various industrial applications.

Principle diagram



NDR-480 SERIES

DIN RAIL TYPE SWITCH POWER SUPPLY



Туре		Technical indicato	rs		
	DC voltage	12V	24V	48V	
Output	Rated current	40A	20A	10A	
	Rated power	480W	480W	480W	
	Ripple and noise ①	<120MV	<120MV	<150MV	
	Voltage accuracy	±2%	±1%	±1%	
	Voltage regulation range	±10%			
	Load adjustment rate	±1%			
	Linear adjustment rate	±0.5%			
Input	Voltage range	200-240VAC 47hz-63hz (120vdc-370vdc: DC input can be realized by connecting AC / L +, AC / N (-))			
	Efficiency (typical) ②	>86%	>88%	>89%	
	Working current	<2.25A 110VAC <1.3A 220VAC			
	Impulse current	110VAC 20A, 220VAC 35A			
	Start up time	500ms、70ms、32ms:110VAC/500ms、70ms、36ms:220VAC			
	Leakage current	<1mA 240VAC			
	Overload protection	105% - 150% type: protection mode: automatic recovery after removing the abnormal condition of constant current mode			
Protection	Overvoltage protection	When the output voltage is more than 135%, the output will be turned off. It will recover automatically after the abnormal conditions are removed			
characteristics	Short circuit protection	+VO When the abnormal condition of output is released, it will recover automatical			
	Operating temperature、humidity	-10°C~+50°C; 20%~90RH			
Environment	Storage temperature、humidity	-20°C~+85°C; 10%~95RH			
C	Withstand voltage	Input output: 3kVa	c input ground: 1.5kVac o	output ground: 0.5kvac for 1 minut	
Security	Isolation resistance	Input output, input shell, output shell: 500VDC / 100M Ω			
	size	85*125*128.5mm(L*W*H)			
Other	Net weight / gross weight	1300/1500g			
Remarks	 ①Ripple and noise measurement method: use a 12 twisted pair, and connect 0.1uF and 47uF capacitor in parallel at the terminal, and measure at 20MHz bandwidth. 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. Test method of linear regulation: test from low voltage to high voltage under rated load. Load adjustment rate test method: from 0% to 100% of rated load. The starting time is measured under the cold start state. Fast and frequent startup and shutdow may increase the starting time. When the operating altitude is higher than 2000 meters, the operatin ambient temperature needs to be reduced by 5 °C/1000 meters. 				