

NDR-120 series



Features

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
 / Over temperature
- · Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508 (industrial control equipment) approved
- EN61000-6-2(EN50082-2) industrial immunity level
- 100% full load burn-in test
- · 3 years warranty

Description

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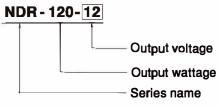
Applications

- Industrial control system
- Semiconductor fabrication equipment
- · Factory automation
- · Electro-mechanical apparatus

NDR-120 is one economical slim 120W DIN rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 40mm in width, which allows space saving inside the cabinets. The entire series adopts the full range AC input from 90VAC to 264VAC and conforms to EN61000-3-2, the norm the European Union regulates for harmonic current.

NDR-120 is designed with metal housing that enhances the unit's power dissipation. With working efficiency up to 89%, the entire series can operate at the ambient temperature between -20° C and 70° C under air convection. It is equipped with constant current mode for over-load protection, fitting various inductive or capacitive applications. The complete protection functions and relevant certificates for industrial control apparatus (UL508, TUV EN60950-1, and etc.) make NDR-120 a very competitive power supply solution for industrial applications.

Model Encoding



File Name:NDR-120-SPEC 2018-01-12



120W Single Output Industrial DIN RAIL

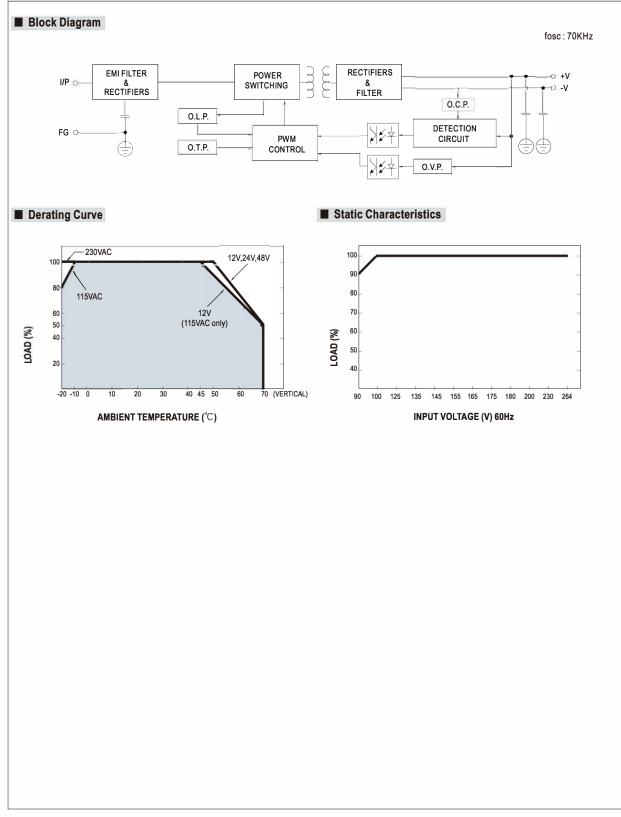
NDR-120 series

SPECIFICATION

MODEL		NDR-120-12	NDR-120-24	NDR-120-48
OUTPUT	DC VOLTAGE	12V	24V	48V
	RATED CURRENT	10A	5A	2.5A
	CURRENT RANGE	0~10A	0~5A	0~2.5A
	RATED POWER	120W	120W	120W
	RIPPLE & NOISE (max.) Note.2	100mVp-p	120mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	12 ~ 14V	24~28V	48 ~ 55V
	VOLTAGETOLERANCE Note.3	±2.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%
	SETUP, RISE TIME	1200ms, 60ms/230VAC 2500ms, 60ms/115VAC at full load		
	HOLD UP TIME (Typ.)	16ms/230VAC 10ms/115VAC at full load		
INPUT	VOLTAGE RANGE Note.6	E RANGE Note.6 90 ~ 264VAC 127 ~ 370VDC [DC input operation possible by connecting AC/L(+), AC/N(-)]		
	FREQUENCY RANGE	47 ~ 63Hz	<u> </u>	
	EFFICIENCY (Typ.)	85.5%	88%	89%
	AC CURRENT (Typ.)	2.25A/115VAC 1.3A/230VAC		
	INRUSH CURRENT (Typ.)	20A/115VAC 35A/230VAC		
	LEAKAGE CURRENT	<1mA / 240VAC		
PROTECTION	OVERLOAD	105 ~ 130% rated output power		
		Protection type : Constant current limiting,	recovers automatically after fault condition	is removed
	OVER VOLTAGE	14 ~ 17V	29~33V	56 ~ 65V
		Protection type : Shut down o/p voltage, re	e-power on to recover	
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover		
ENVIRONMENT	WORKING TEMP.	-20 ~ +70°C (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH		
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)		
	VIBRATION	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6		
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL508, TUV EN60950-1, EAC TP TC 004 approved;(meet EN60204-1)		
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC		
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH		
	EMC EMISSION	Compliance to EN55032 (CISPR32), EN61204-3 Class B, EN61000-3-2,-3, EAC TP TC 020		
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level, criteria A, EAC TP TC 020		
OTHERS	MTBF	456.3K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	40*125.2*113.5mm (W*H*D)		
	PACKING	0.6Kg; 20pcs/13Kg/1.16CUFT		
NOTE	 All parameters NOT specia Ripple & noise are measure Tolerance : includes set up The power supply is consid EMC directives. Installation clearances : 40r In case the adjacent device Derating may be needed up 	Ily mentioned are measured at 230VAC in ed at 20MHz of bandwidth by using a 12" tolerance, line regulation and load regulat lered a component which will be installed i mm on top, 20mm on the bottom, 5mm on b is a heat source, 15mm clearance is reco nder low input voltage. Please check the d erating of 3.5°C/1000m with fanless mode	twisted pair-wire terminated with a 0.1 uf & ion. Into a final equipment. The final equipmen the left and right side are recommended ommended. lerating curve for more details.	& 47uf parallel capacitor. It must be re-confirmed that it still meets when loaded permanently with full power

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