





■ 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
- BS EN/EN61000-6-2(BS EN/EN50082-2) industrial immunity level
- 100% full load burn-in test
- 3 years warranty

Applications

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

■ GTIN CODE

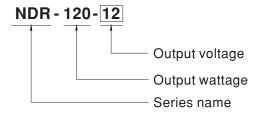
MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

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 BS EN/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 $^{\circ}$ C and 70 $^{\circ}$ 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 BS EN/EN62368-1, and etc.) make NDR-120 a very competitive power supply solution for industrial applications.

■ Model Encoding

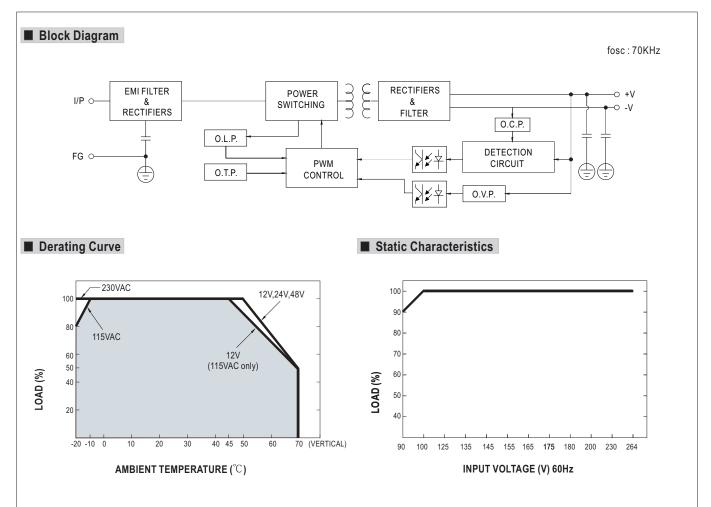




SPECIFICATION

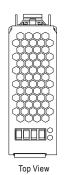
MODEL		NDR-120-12	NDR-120-24	NDR-120-48	
ОИТРИТ	DC VOLTAGE	12V	24V	48V	
	RATED CURRENT	10A	5A	2.5A	
	CURRENT RANGE	0~10A	0 ~ 5A	0 ~ 2.5A	
	RATED POWER	120W	120W	120W	
	RIPPLE & NOISE (max.) Note.2	100mVp-p	120mVp-p	150mVp-p	
	VOLTAGE ADJ. RANGE	12 ~ 14V	24 ~ 28V	48 ~ 55V	
	VOLTAGE TOLERANCE Note.3	±2.0%	±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, 60m	ns/115VAC at full load		
	HOLD UP TIME (Typ.)	16ms/230VAC 10ms/115VAC at full load			
INPUT		90 ~ 264VAC 127 ~ 370VDC [DC input operation possible by connecting AC/L(+), AC/N(-)]			
	FREQUENCY RANGE	47 ~ 63Hz	par operation possible by sermicoling /to/2(7,710711()]	
	EFFICIENCY (Typ.)	85.5%	88%	89%	
	AC CURRENT (Typ.)	2.25A/115VAC 1.3A/230VAC	0070	0070	
	INRUSH CURRENT (Typ.)	20A/115VAC 1.5A/230VAC 20A/115VAC 35A/230VAC			
	LEAKAGE CURRENT	<1mA/240VAC			
	ELAKAGE GOKKENT	105 ~ 130% rated output power			
PROTECTION	OVERLOAD	Protection type: Constant current limiting, recovers automatically after fault condition is removed			
	OVER VOLTAGE	14 ~ 17V	29 ~ 33V	56 ~ 65V	
PROTECTION				J0 ~ 0JV	
	OVER TEMPERATURE	Protection type: Shut down o/p voltage, re-power on to recover			
		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 -40 ~ +85°C, 10 ~ 95% RH			
	STORAGE TEMP., HUMIDITY	·			
	TEMP. COEFFICIENT VIBRATION	±0.03%/°C (0 ~ 50°C) Component: 10 = 500Hz, 2C 10min /1evels, 60min, each clong V, V, 7 ever: Mounting: Compliance to IEC60069 2.6			
	SAFETY STANDARDS	Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6			
	WITHSTAND VOLTAGE	UL508, TUV BS EN/EN62368-1, EAC TP TC 004 approved; (meet BS EN/EN60204-1) I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC		1)	
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:2100M Ohms / 500VDC / 25°C / 70% RH			
EMC (Note 4)	EMC EMISSION			161000 3 2 3 EAC TO TO 020	
(11010 1)	LING LINIOGION	Compliance to BS EN/EN55032 (CISPR32), BS EN/EN61204-3 Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020 Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, BS EN/EN61000-6-2 (BS EN/EN50082-2),			
	EMC IMMUNITY	BS EN/EN61204-3, heavy industry level, EAC TP TC 020		00 0 2 (DO ENVENTOUGE 2),	
OTHERS	MTBF	·		L-HDBK-217F (25°C)	
	DIMENSION	40*125.2*113.5mm (W*H*D)			
	PACKING	0.6Kg; 20pcs/13Kg/1.16CUFT			
NOTE	1. All parameters NOT specia	lly mentioned are measured at 230VAC in	put, rated load and 25 $^{\circ}\mathrm{C}$ of ambient tempe	rature.	
11012	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 set up tolerance, line regulation and load regulation.				
	4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets				
	EMC directives.				
	5. Installation clearances: 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended.				
	In case the adjacent device is a neat source, 15mm clearance is recommended. 6. Derating may be needed under low input voltage. Please check the derating curve for more details.				
	7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than				
	2000m(6500ft).				
	Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx				





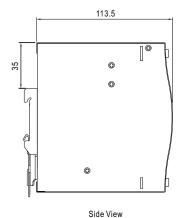


■ Mechanical Specification



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Case No.992D Unit:mm

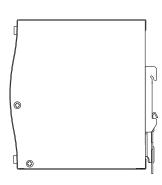


12 3 4

TB2

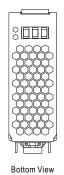
+VADJ. O

DC OK O



Front View

Side View



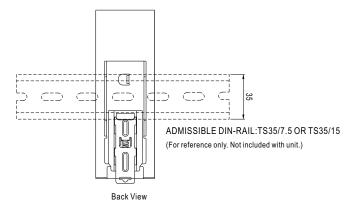
Terminal Pin No. Assignment (TB1)

Pin No.	Assignment	
1	FG ⊕	
2	AC/N or DC -	
3	AC/L or DC +	

Terminal Pin No. Assignment (TB2)

Pin No.	Assignment		
1,2	DC OUTPUT -V		
3,4	DC OUTPUT+V		

■ Installation Instruction



This series fits DIN rail TS35/7.5 or TS35/15. For installation details, please refer to the Instruction manual.

■ Installation Manual

Please refer to: http://www.meanwell.com/manual.html