







- 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

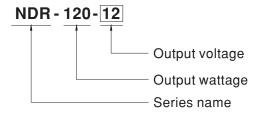
MW Search: https://www.meanwell.com/serviceGTIN.aspx

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

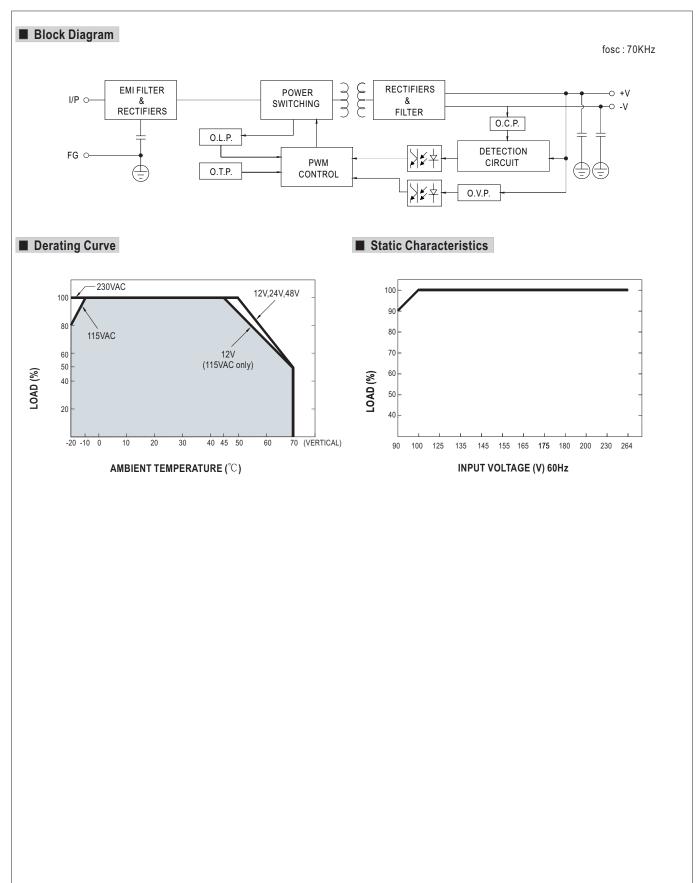




SPECIFICATION

MODEL		NDR-120-12	NDR-120-24	NDR-120-48	
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	· ·	120mVp-p	150mVp-p	
	VOLTAGE ADJ. RANGE	12 ~ 14V	24 ~ 28V	48 ~ 55V	
	VOLTAGE TOLERANCE Note.3		±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	
		±1.0%	±1.0%	±1.0%	
	LOAD REGULATION			⊥ 1.070	
	SETUP, RISE TIME	1200ms, 60ms/230VAC 2500ms, 60ms/115VAC at full load			
	HOLD UP TIME (Typ.)	16ms/230VAC 10ms/115VAC at full lo			
	VOLTAGE RANGE Note.6	•	iput operation possible by connecting AC/L(+	-), AC/N(-)]	
	FREQUENCY RANGE	47 ~ 63Hz			
INPUT	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			
	OVERLOAR	105 ~ 130% rated output power			
	OVERLOAD	Protection type: Constant current limiting, recovers automatically after fault condition is removed			
PROTECTION	OVER VOLTAGE	14 ~ 17V	29 ~ 33V	56 ~ 65V	
		Protection type : Shut down o/p voltage, re-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 STANDARDS	UL508, TUV BS EN/EN62368-1, EAC TP TC 004 approved; (meet BS EN/EN60204-1)			
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH			
EMC	ISOLATION RESISTANCE				
(Note 4)	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32), BS EN/EN61204-3 Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020			
	EMC IMMUNITY Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, BS EN/EN61000-6-2 (BS EN/EN50082) BS EN/EN61204-3, heavy industry level, EAC TP TC 020				
	MTBF			 L-HDBK-217F (25°C)	
OTHERS	DIMENSION	40*125.2*113.5mm (W*H*D)	oz (Benedie), Teeler III IIII.	L 11001(2111 (20 °)	
	PACKING	0.6Kg; 20pcs/13Kg/1.16CUFT			
NOTE		0, 1	put, rated load and 25 $^\circ{\mathbb C}$ of ambient tempe	rature	
NOTE	2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor.				
		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.(as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)				
	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.				
	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/serviceDisclaim	ner.aspx	

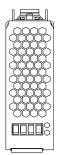




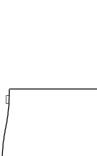
Unit:mm



■ Mechanical Specification

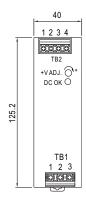


Top View

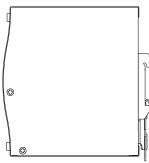


Case No.992D

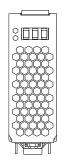
Side View



Front View



Side View



Bottom View

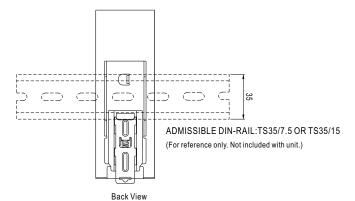
Terminal Pin No. Assignment (TB1)

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