



■ 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

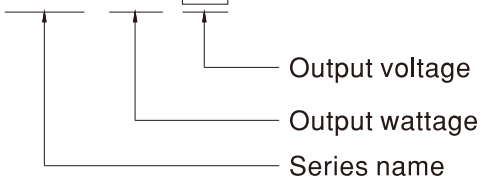
■ Description

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

NDR - 120 - 12



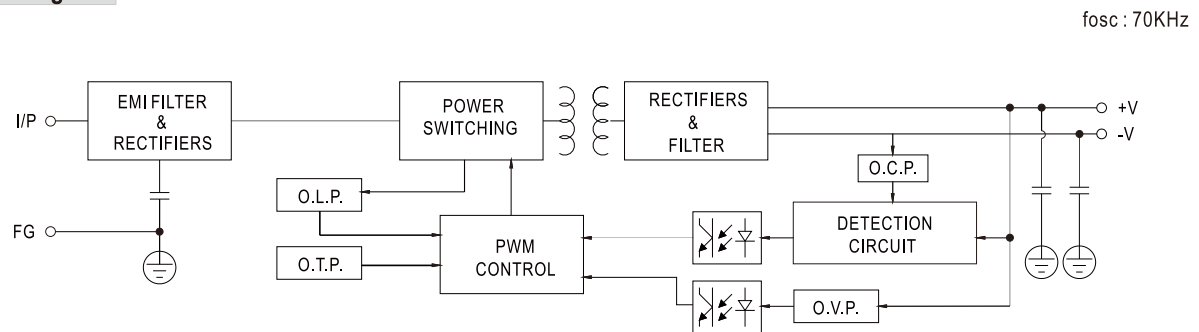
■ Applications

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

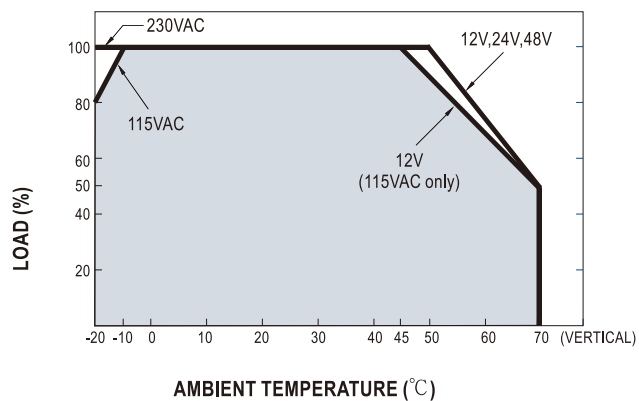
**SPECIFICATION**

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	
	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, 60ms/115VAC at full load			
	HOLD UP TIME (Typ.)	16ms/230VAC		10ms/115VAC at full load			
INPUT	VOLTAGE RANGE Note.6	90 ~ 264VAC		127 ~ 370VDC		[DC input operation possible by connecting AC/L(+), AC/N(-)]	
	FREQUENCY RANGE	47 ~ 63Hz					
	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-power on to recover					
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover					
ENVIRONMENT	WORKING TEMP.	-20 ~ +70℃ (Refer to "Derating Curve")					
	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH					
	TEMP. COEFFICIENT	± 0.03%/℃ (0 ~ 50℃)					
	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℃ / 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℃)					
	DIMENSION	40*125.2*113.5mm (W*H*D)					
	PACKING	0.6Kg; 20pcs/13Kg/1.16CUFT					
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 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. 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℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).						

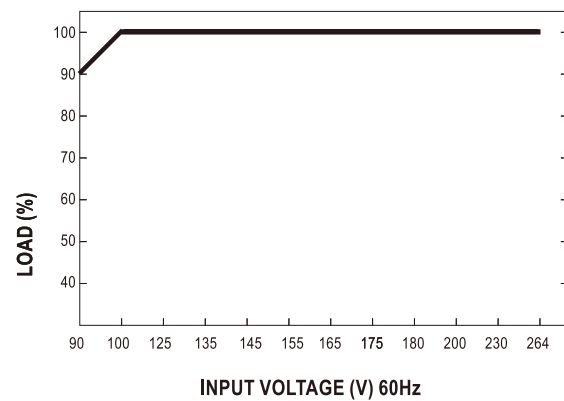
Block Diagram



Derating Curve

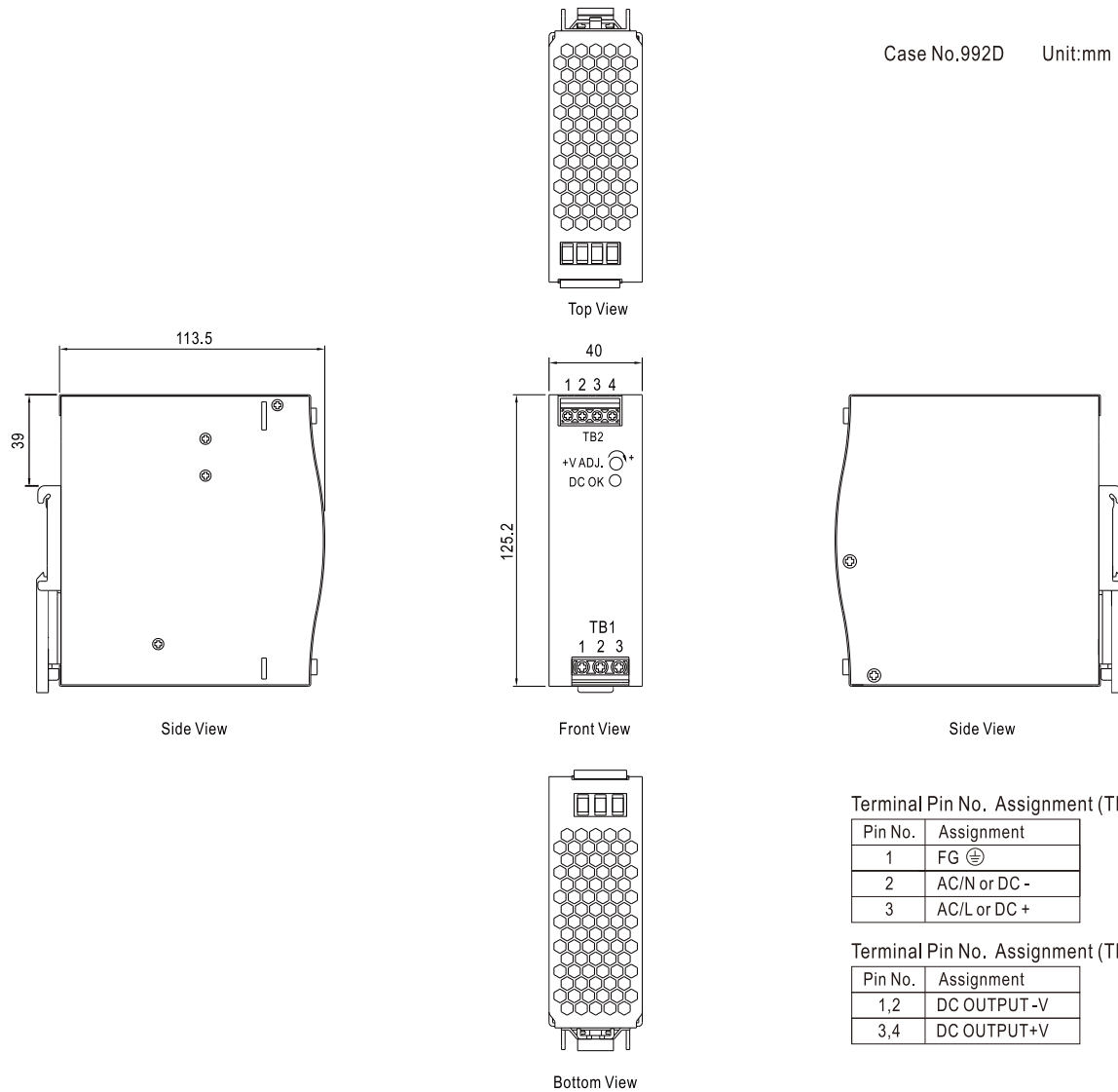


Static Characteristics

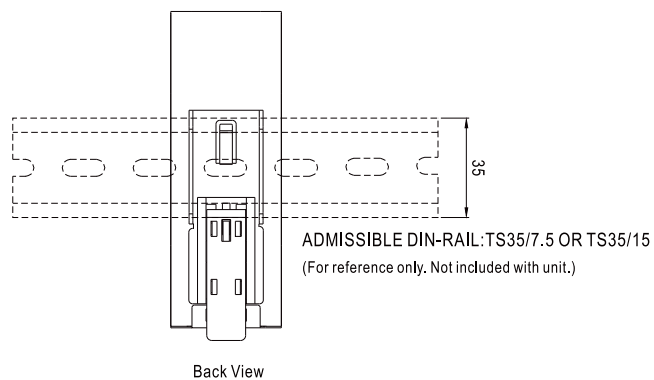


Mechanical Specification

Case No.992D Unit:mm



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>