



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-75 is one economical slim 75W Din rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 32mm 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-75 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-75 a very competitive power supply solution for industrial applications.

Model Encoding

NDR - 75 - 12

Output voltage

Output wattage

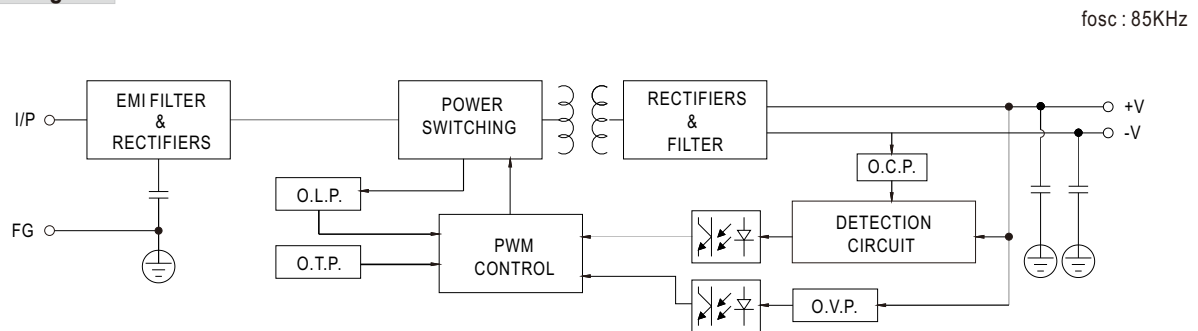
Series name



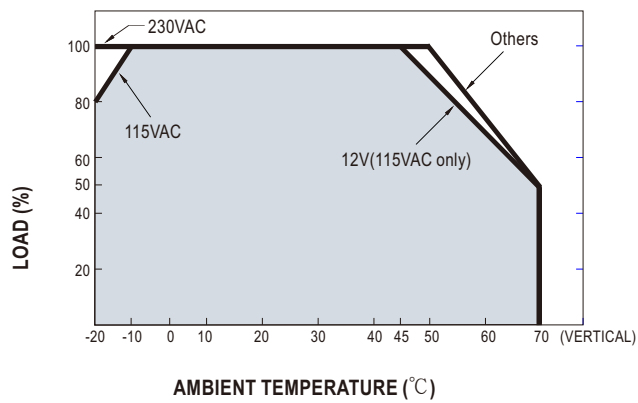
SPECIFICATION

MODEL		NDR-75-12		NDR-75-24		NDR-75-48		
OUTPUT	DC VOLTAGE	12V		24V		48V		
	RATED CURRENT	6.3A		3.2A		1.6A		
	CURRENT RANGE	0 ~ 6.3A		0 ~ 3.2A		0 ~ 1.6A		
	RATED POWER	75.6W		76.8W		76.8W		
	RIPPLE & NOISE (max.)	Note.2	80mVp-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 2000ms, 60ms/115VAC at full load						
	HOLD UP TIME (Typ.)	60ms/230VAC 12ms/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.)	1.45A/115VAC 0.9A/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	Protection type : 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 approved						
	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 EN55022 (CISPR22), EN61204-3 Class B, EN61000-3-2,-3						
	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						
OTHERS	MTBF	486.2K hrs min. MIL-HDBK-217F (25°C)						
	DIMENSION	32*125.2*102mm (W*H*D)						
	PACKING	0.51Kg; 28pcs/15.3Kg/1.22CUFT						
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C 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.							

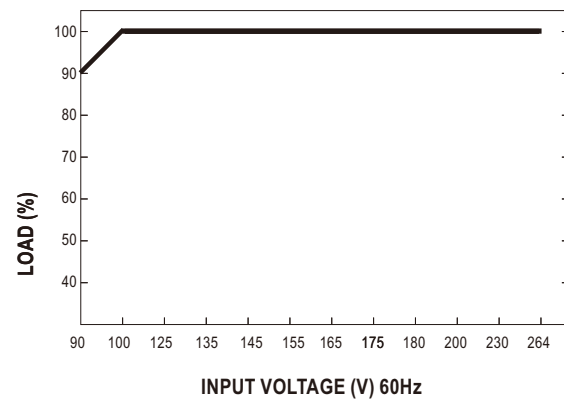
Block Diagram



Derating Curve



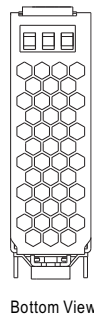
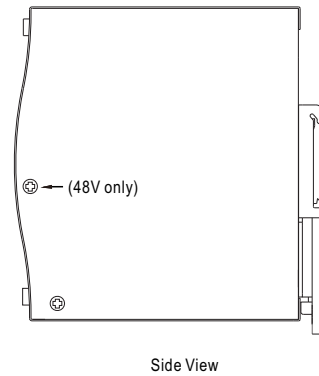
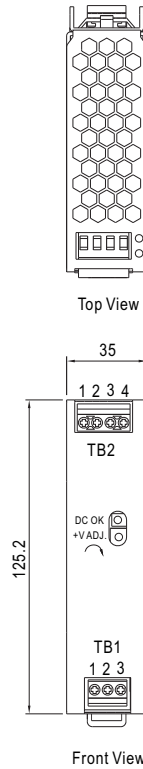
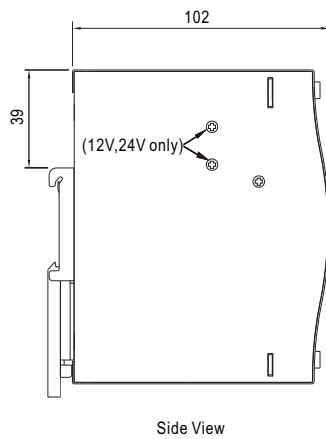
Static Characteristics



Mechanical Specification

Case No.221B

Unit:mm



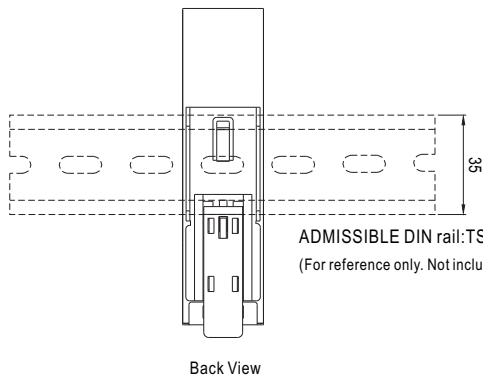
Terminal Pin No. Assignment (TB1)

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



ADMISSIBLE DIN rail: TS35/7.5 OR TS35/15
(For reference only. Not included with unit.)

This series fits DIN rail TS35/7.5 or TS35/15.
For installation details, please refer to the USER MANUAL on
http://www.meanwell.com/search/NDR-75/NDR_manual.pdf