

User's Manual



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-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 BS EN/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 BS EN/EN62368-1, and etc.) make NDR-75 a very competitive power supply solution for industrial applications.

Model Encoding

NDR - 75 - 12

Output voltage

Output wattage

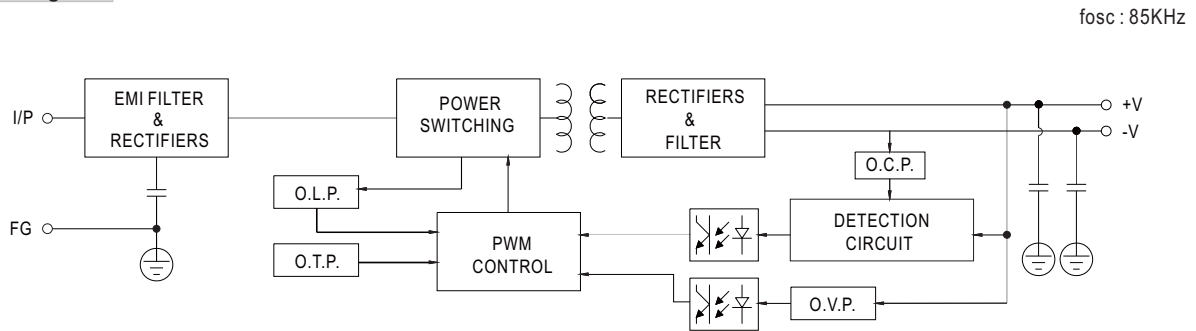
Series name



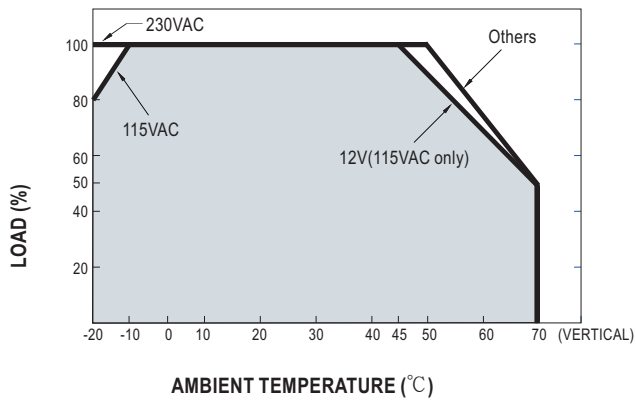
SPECIFICATION

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℃ (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 BS EN/EN62368-1, EAC TP TC 004 approved;(meet BS EN/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 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/EN50082-2), BS EN/EN61204-3, heavy industry level, EAC TP TC 020					
OTHERS	MTBF		2757.3K hrs min. Telcordia SR-332 (Bellcore) ; 486.2K hrs min. MIL-HDBK-217F (25℃)					
	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℃ of ambient temperature. 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. 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.(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℃/1000m with fanless models and of 5℃/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						

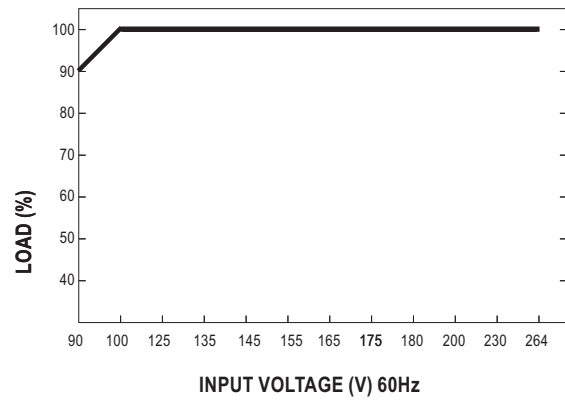
■ Block Diagram



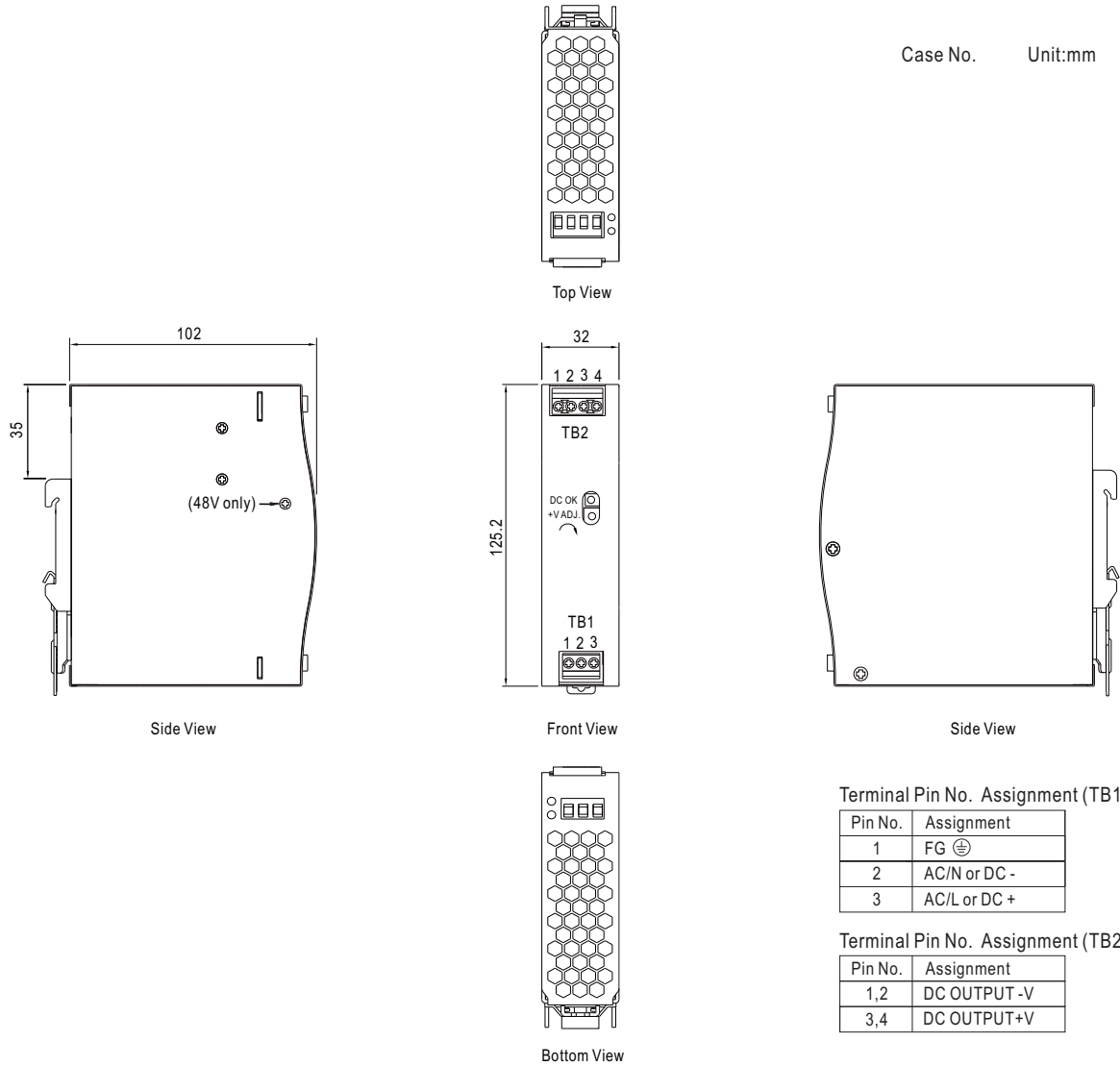
■ Derating Curve



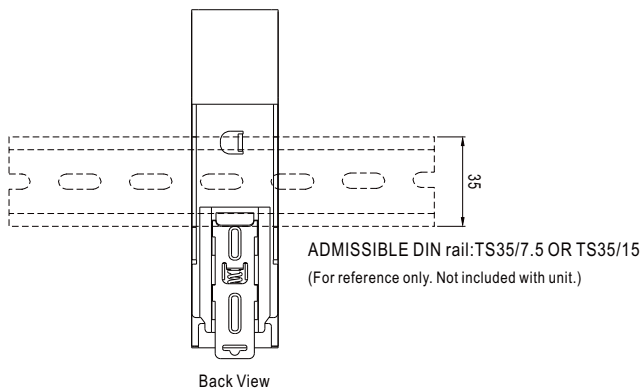
■ Static Characteristics



Mechanical Specification



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>