



■ Features

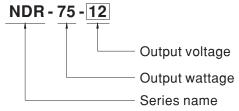
- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
 / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508 (industrial control equipment) approved
- BS EN/EN61000-6-2(BS EN/EN50082-2) industrial immunity level
- · 100% full load burn-in test
- 3 years warranty

■ 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 $^{\circ}$ 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 certificate—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



Applications

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



SPECIFICATION

MODEL		NDR-75-12	NDR-75-24	NDR-75-48	
ОИТРИТ	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		3 (), (),	
	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			
	OVERLOAD	105 ~ 130% rated output power			
		Protection type : Constant current limiti	ng, recovers automatically after fa	ult condition is removed	
ROTECTION	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 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 / 5	00VDC / 25°C / 70% RH		
	EMC EMISSION			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°C)	
	DIMENSION	32*125.2*102mm (W*H*D)	, .	,	
	PACKING	0.51Kg; 28pcs/15.3Kg/1.22CUFT			
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μF & 47 μF parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. 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. Derating may be needed under low input voltage. Please check the derating curve for more details. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. 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). 				

-20 -10 0 10

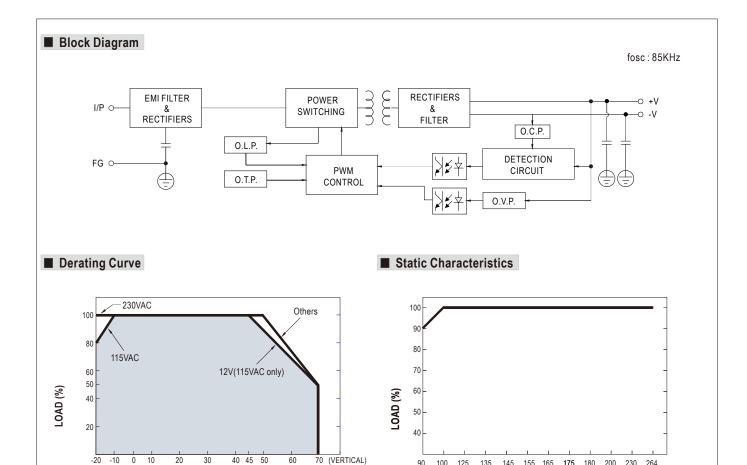
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AMBIENT TEMPERATURE (°C)

135 145 155 165 **175** 180 200 230 264

INPUT VOLTAGE (V) 60Hz



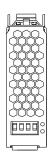
70 (VERTICAL)



■ Mechanical Specification

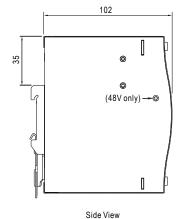
(Unit: mm , tolerance ± 1mm)

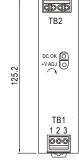
Case No.221A

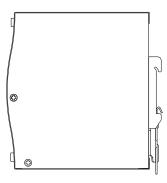


Top View

1234



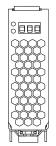




Front View

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Side View



Terminal Pin No. Assignment (TB1)

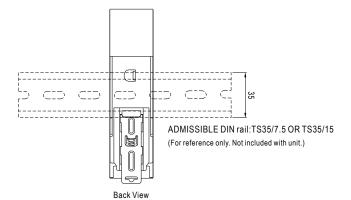
Pin No.	Assignment
1	FG 🖶
2	AC/N or DC -
3	AC/L or DC +

Bottom View

Terminal Pin No. Assignment (TB2)

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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.