



## ■ 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
- EN6100-6-2(EN50082-2) industrial immunity level
- 100% full load burn-in test

## ■ Applications

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

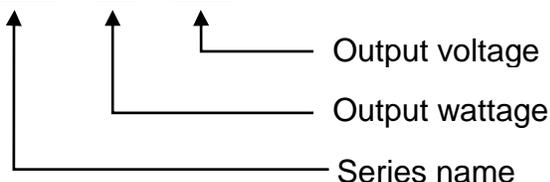
## ■ Description

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 EN6100-3-2, 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

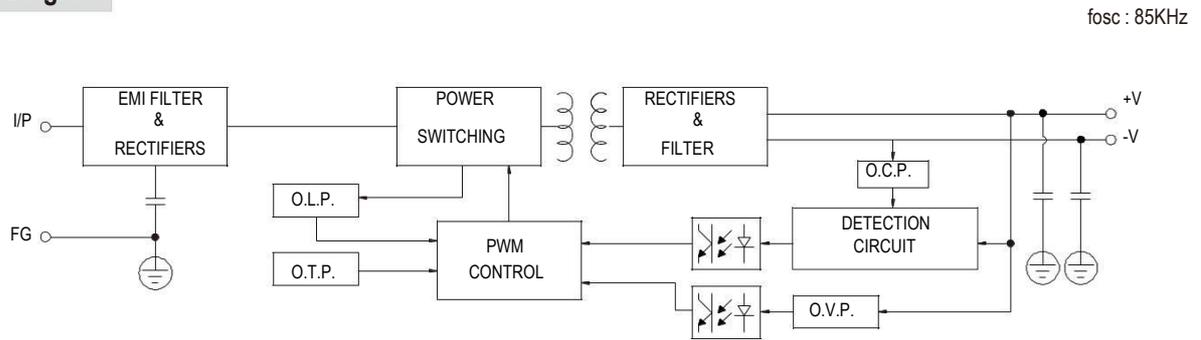
**NDR - 75 - 12**



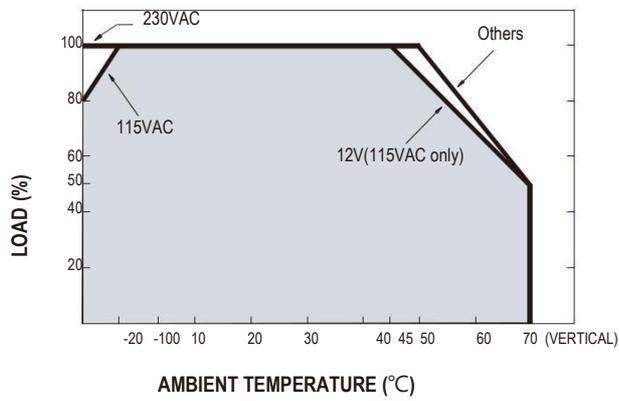
**SPECIFICATION**

<b>MODEL</b>		<b>NDR-75-48</b>
<b>OUTPUT</b>	<b>DC VOLTAGE</b>	48V
	<b>RATED CURRENT</b>	1.6A
	<b>CURRENT RANGE</b>	0 ~ 1.6A
	<b>RATED POWER</b>	76.8W
	<b>RIPPLE &amp; NOISE (max.)</b> Note.2	150mVp-p
	<b>VOLTAGE ADJ. RANGE</b>	48 ~ 55V
	<b>VOLTAGE TOLERANCE</b> Note.3	±1.0%
	<b>LINE REGULATION</b>	±0.5%
	<b>LOAD REGULATION</b>	±1.0%
	<b>SETUP, RISE TIME</b>	1200ms, 60ms/230VAC      2000ms, 60ms/115VAC at full load
	<b>HOLD UP TIME (Typ.)</b>	60ms/230VAC      12ms/115VAC at full load
<b>INPUT</b>	<b>VOLTAGE RANGE</b> Note.6	90 ~ 264VAC      127 ~ 370VDC [DC input operation possible by connecting AC/L(+), AC/N(-)]
	<b>FREQUENCY RANGE</b>	47 ~ 63Hz
	<b>EFFICIENCY (Typ.)</b>	89%
	<b>AC CURRENT (Typ.)</b>	1.45A/115VAC      0.9A/230VAC
	<b>INRUSH CURRENT (Typ.)</b>	20A/115VAC      35A/230VAC
	<b>LEAKAGE CURRENT</b>	<1mA / 240VAC
<b>PROTECTION</b>	<b>OVERLOAD</b>	105 ~ 130% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed
	<b>OVER VOLTAGE</b>	56 ~ 65V Protection type : Shut down o/p voltage, re-power on to recover
	<b>OVER TEMPERATURE</b>	Protection type : Shut down o/p voltage, re-power on to recover
<b>ENVIRONMENT</b>	<b>WORKING TEMP.</b>	-20 ~ +70°C (Refer to "Derating Curve")
	<b>WORKING HUMIDITY</b>	20 ~ 95% RH non-condensing
	<b>STORAGE TEMP., HUMIDITY</b>	-40 ~ +85°C, 10 ~ 95% RH
	<b>TEMP. COEFFICIENT</b>	±0.03%/°C (0 ~ 50°C)
	<b>VIBRATION</b>	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6
<b>SAFETY &amp; EMC (Note 4)</b>	<b>SAFETY STANDARDS</b>	UL508, TUV EN60950-1 approved
	<b>WITHSTAND VOLTAGE</b>	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC
	<b>ISOLATION RESISTANCE</b>	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C/ 70% RH
	<b>EMC EMISSION</b>	Compliance to EN55022 (CISPR22), EN61204-3 Class B, EN61000-3-2,-3
<b>OTHERS</b>	<b>EMC IMMUNITY</b>	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level, criteria A
	<b>MTBF</b>	486.2K hrs min.      MIL-HDBK-217F (25°C)
	<b>DIMENSION</b>	32*125.2*102mm (W*H*D)
	<b>PACKING</b>	0.51Kg; 28pcs/15.3Kg/1.22CUFT
<b>NOTE</b>	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. For guidance on how to perform these EMC tests, please refer to "EMI" testing of component power supplies." 5. Length of set up time is measured at cold first start. Turning ON/OFF power supply may lead to increase to the set up time.	

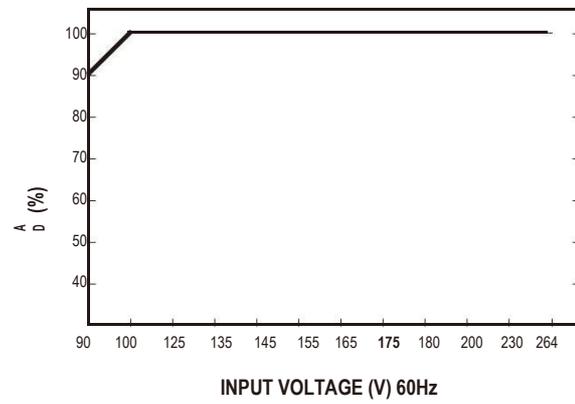
### Block Diagram



### Derating Curve



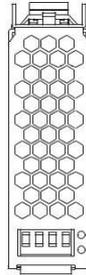
### Static Characteristics



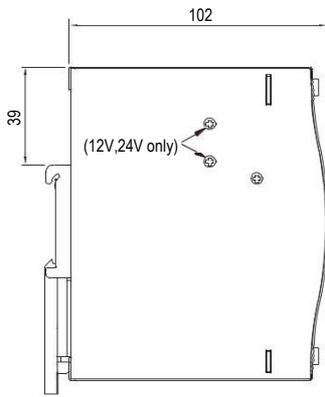
■ **Mechanical Specification**

Case No.221B

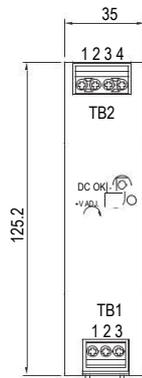
Unit:mm



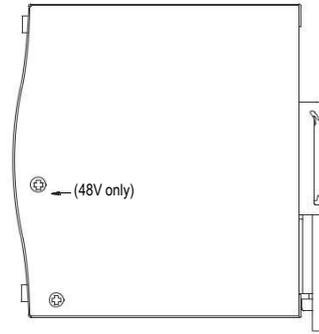
Top View



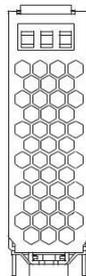
Side View



Front View



Side View



Bottom View

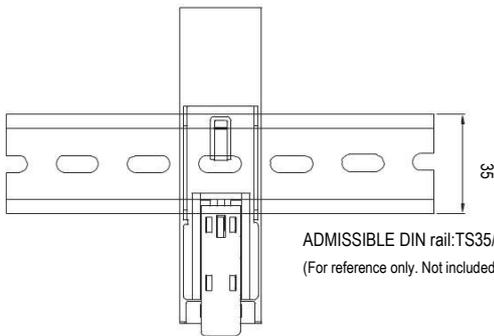
Terminal Pin No. Assignment (TB1)

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**



Back View

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](http://www.meanwell.com/search/NDR-75/NDR_manual.pdf)