





■ 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

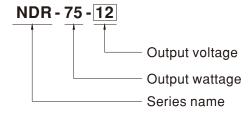
MW Search: https://www.meanwell.com/serviceGTIN.aspx

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 $^{\circ}$ 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 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

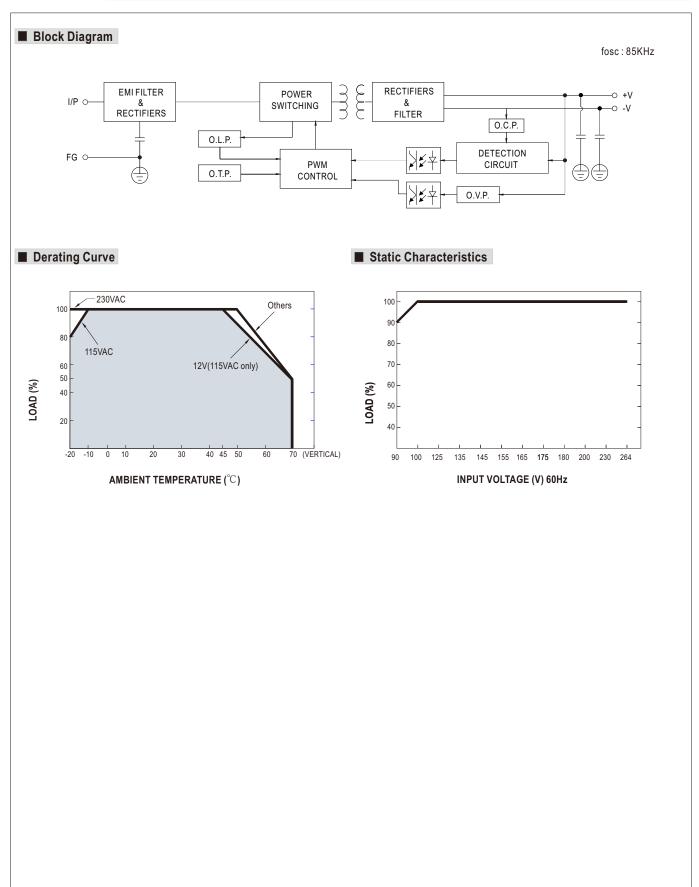




SPECIFICATION

| DEL | | NDR-75-12 | NDR-75-24 | NDR-75-48 | |
|-------------------------|---|--|---|-------------------------------|--|
| D | C VOLTAGE | 12V | 24V | 48V | |
| R/ | ATED CURRENT | 6.3A | 3.2A | 1.6A | |
| CI | URRENT RANGE | 0~6.3A | 0 ~ 3.2A | 0 ~ 1.6A | |
| R/ | ATED POWER | 75.6W | 76.8W | 76.8W | |
| TPUT RI | RIPPLE & NOISE (max.) Note.2 | 80mVp-p | 120mVp-p | 150mVp-p | |
| | OLTAGE ADJ. RANGE | 12 ~ 14V | 24 ~ 28V | 48 ~ 55V | |
| V | OLTAGE TOLERANCE Note.3 | ±2.0% | ±1.0% | ±1.0% | |
| LI | INE REGULATION | ±0.5% | ±0.5% | ±0.5% | |
| LO | OAD REGULATION | ±1.0% | ±1.0% | ±1.0% | |
| SI | ETUP, RISE TIME | 1200ms, 60ms/230VAC 2000ms, | 60ms/115VAC at full load | | |
| Н | IOLD UP TIME (Typ.) | 60ms/230VAC 12ms/115VAC at f | ull load | | |
| | | 90 ~ 264VAC 127 ~ 370VDC [DC input operation possible by connecting AC/L(+), AC/N(-)] | | | |
| | REQUENCY RANGE | 47 ~ 63Hz | | | |
| F | FFICIENCY (Typ.) | 85.5% | 88% | 89% | |
| ′UI — | C CURRENT (Typ.) | 1.45A/115VAC 0.9A/230VAC | 1-570 | | |
| | NRUSH CURRENT (Typ.) | 20A/115VAC 35A/230VAC | | | |
| | EAKAGE CURRENT | <1mA / 240VAC | | | |
| | | 105 ~ 130% rated output power | | | |
| 0/ | VERLOAD | Protection type : Constant current limit | ing, recovers automatically aft | er fault condition is removed | |
| TECTION | OVER VOLTAGE | 14 ~ 17V | 29 ~ 33V | 56 ~ 65V | |
| O | | Protection type : Shut down o/p voltage | | | |
| 0) | OVER TEMPERATURE | Protection type : Shut down o/p voltage | <u> </u> | | |
| | VORKING TEMP. | -20 ~ +70°C (Refer to "Derating Curve") | | | |
| | VORKING HUMIDITY | 20 ~ 95% RH non-condensing | | | |
| | TORAGE TEMP., HUMIDITY | -40 ~ +85°C , 10 ~ 95% RH | | | |
| | EMP. COEFFICIENT | ±0.03%/°C (0~50°C) | | | |
| | IBRATION | Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6 | | | |
| | SAFETY STANDARDS | UL508, TUV BS EN/EN62368-1, EAC TP TC 004 approved; (meet BS EN/EN60204-1) | | | |
| | VITHSTAND VOLTAGE | I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC | | | |
| • | SOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH | | | |
| ite 4) | MC EMISSION | Compliance to BS EN/EN55032 (CISPR32), BS EN/EN61204-3 Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020 | | | |
| | MC 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 | | | |
| M. | ITBF | 2757.3K hrs min. Telcordia SR-332 | (Bellcore); 486.2K hrs min. | MIL-HDBK-217F (25°C) | |
| HERS DI | IMENSION | 32*125.2*102mm (W*H*D) | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | (/ | |
| P/ | ACKING | 0.51Kg; 28pcs/15.3Kg/1.23CUFT | | | |
| TE 2. 3. 4. si 5. fu 6. | 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 μ F & 47 μ F parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. 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) 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 ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than | | | | |
| 5. fu 6. 7. | 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 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. | | | | |



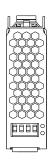




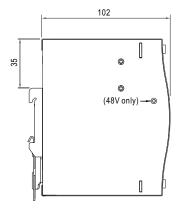
■ Mechanical Specification

(Unit: mm, tolerance ± 1mm)

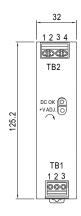




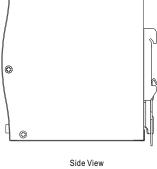
Top View

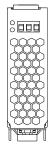


Side View



Front View





Bottom View

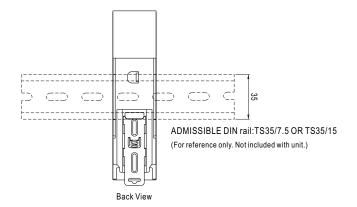
Terminal Pin No. Assignment (TB1)

| | • |
|---------|--------------|
| 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



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