



240W Single Output Industrial DIN RAIL

NDR-240 series

















■ Features

- Universal AC input / Full range
- · Built-in active PFC function
- 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
- · Semi-conductor fabrication equipment
- Factory automation
- · Electro-mechanical

■ GTIN CODE

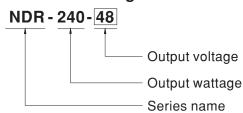
MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

NDR-240 is one economical slim 240W Din rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 63mm 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-240 is designed with metal housing that enhances the unit's power dissipation. With working efficiency up to 90%, 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-240 a very competitive power supply solution for industrial applications.

■ Model Encoding

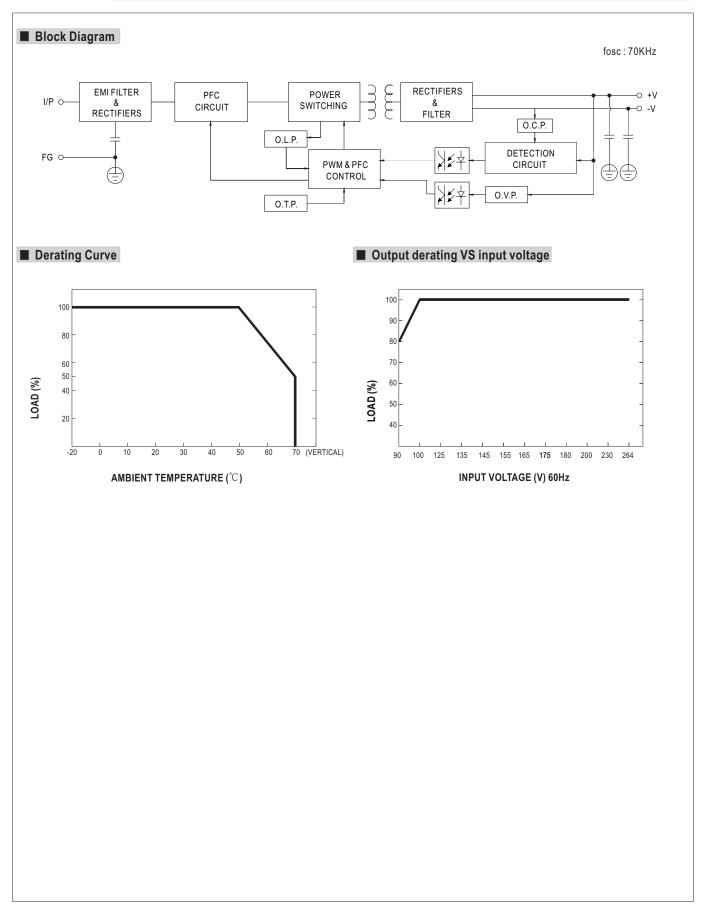




SPECIFICATION

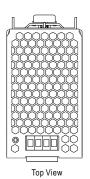
| FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.) | 24 ~ 28V | 48V 5A 0 ~ 5A 240W 150mVp-p 48 ~ 55V ±1.0% ±0.5% ±1.0% C at full load | |
|---|---|--|--|
| CURRENT RANGE RATED POWER RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.) | 0 ~ 10A 240W 150mVp-p 24 ~ 28V ±1.0% ±0.5% ±1.0% 1500ms, 100ms/230VAC 3000ms, 100ms/115VA 28ms/230VAC 22ms/115VAC at full load 90 ~ 264VAC 127 ~ 370VDC 47 ~ 63Hz | 0~5A 240W 150mVp-p 48~55V ±1.0% ±0.5% ±1.0% | |
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| POWER FACTOR (Typ.) EFFICIENCY (Typ.) | | | |
| EFFICIENCY (Typ.) | PF>0.98/115VAC, PF>0.95/230VAC at full load | | |
| (• . , | | | |
| | 88.5% | 90% | |
| AC CURRENT (Typ.) | 2.5A/115VAC 1.3A/230VAC | | |
| INRUSH CURRENT (Typ.) | 20A/115VAC 35A/230VAC | | |
| LEAKAGE CURRENT | <1mA / 240VAC | | |
| OVERLOAD | 105 ~ 130% rated output power | | |
| OVERLOAD | Protection type: Constant current limiting, recovers at | utomatically after fault condition is removed | |
| | 29 ~ 33V | 56 ~ 65V | |
| OVER VOLTAGE | Protection type: Shut down o/p voltage, re-power on t | o recover | |
| OVER TEMPERATURE | Shut down o/p voltage, recovers automatically after tel | mperature goes down | |
| WORKING TEMP. | -20 ~ +70°C (Refer to "Derating Curve") | | |
| WORKING HUMIDITY | 20 ~ 95% RH non-condensing | | |
| | -40 ~ +85°C. 10 ~ 95% RH | | |
| | , | | |
| VIBRATION | , | ch along X. Y. Z axes: Mounting: Compliance to IEC60068-2-6 | |
| SAFETY STANDARDS | UL508, TUV BS EN/EN62368-1, EAC TP TC 004, BSMI | CNS14336-1, BIS IS13252(Part1): 2010/IEC 60950-1:2005(NOTE 8) , | |
| WITHSTAND VOLTAGE | , | 00204-1) | |
| | | C/700/ DU | |
| ISOLATION RESISTANCE | · | | |
| (Note 4) EMC EMISSION | Compliance to BS EN/EN55032 (CISPR32), BS EN/EN61204-3 Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020, CNS13438, KSC 9832(for 48V only) | | |
| EMC IMMUNITY | Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS BS EN/EN61204-3, heavy industry level, EAC TP TC | EN/EN55035, BS EN/EN61000-6-2 (BS EN/EN50082-2), C 020,KSC 9835(for 48V only) | |
| MTBF | 1645.2K hrs min. Telcordia SR-332 (Bellcore); 230 | .2K hrs min. MIL-HDBK-217F (25° C) | |
| DIMENSION | 63*125.2*113.5mm (W*H*D) | | |
| PACKING | 1Kg; 12pcs/13Kg/1.22CUFT | | |
| 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Derating may be needed ur 5. Installation clearances : 40n In case the adjacent device 6. The power supply is conside EMC directives. For guidanc (as available on https://www 7. The ambient temperature de 2000m(6500ft). | and at 20MHz of bandwidth by using a 12" twisted pair tolerance, line regulation and load regulation. Inder low input voltage. Please check the derating cun nm on top, 20mm on the bottom, 5mm on the left and is a heat source, 15mm clearance is recommended. In the action of the property of the control of | r-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor. we for more details. d right side are recommended when loaded permanently with full power. Equipment. The final equipment must be re-confirmed that it still meets to "EMI testing of component power supplies." | |
| IN L O O O W S T V S W IS E E N D P | EAKAGE CURRENT IVERLOAD IVER VOLTAGE IVER TEMPERATURE I/ORKING TEMP. I/ORKING HUMIDITY TORAGE TEMP., HUMIDITY EMP. COEFFICIENT IBRATION AFETY STANDARDS I/ITHSTAND VOLTAGE SOLATION RESISTANCE MC EMISSION MC IMMUNITY ITBF I/MENSION ACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Derating may be needed ur 5. Installation clearances : 40n In case the adjacent device 6. The power supply is consid EMC directives. For guidan (as available on https://www 7. The ambient temperature d 2000m(6500ft). 3. Some model may not have | ARUSH CURRENT (Typ.) 20A/115VAC 35A/230VAC SAKAGE CURRENT Canal Component (1908) | |



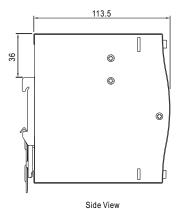


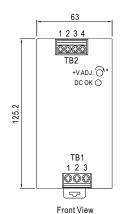


■ Mechanical Specification



Case No.979C Unit:mm





Bottom View

Terminal Pin No. Assignment (TB1)

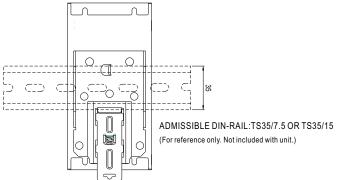
Side View

| 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

Back View