







- · 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

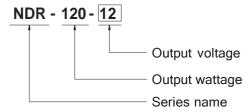
MW Search: https://www.meanwell.com/serviceGTIN.aspx

■ Description

NDR-120-12 is one economical slim 120W DIN rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 40mm 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-120-12 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-120-12 a very competitive power supply solution for industrial applications.

■ Model Encoding





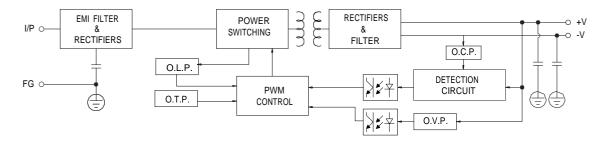
SPECIFICATION

| MODEL | | NDR-120-12 |
|-------------|--|--|
| OUTPUT | DC VOLTAGE | 12V |
| | RATED CURRENT | 10A |
| | CURRENT RANGE | 0 ~ 10A |
| | RATED POWER | 120W |
| | RIPPLE & NOISE (max.) Note.2 | |
| | VOLTAGE ADJ. RANGE | 12 ~ 14V |
| | VOLTAGE TOLERANCE Note.3 | ±2.0% |
| | LINE REGULATION | ±0.5% |
| | LOAD REGULATION | ±1.0% |
| | SETUP, RISE TIME | 1200ms, 60ms/230VAC 2500ms, 60ms/115VAC at full load |
| | HOLD UP TIME (Typ.) | 16ms/230VAC 10ms/115VAC at full load |
| | , , , , | 90 ~ 264VAC 127 ~ 370VDC [DC input operation possible by connecting AC/L(+), AC/N(-)] |
| | FREQUENCY RANGE | 47 ~ 63Hz |
| INPUT | EFFICIENCY (Typ.) | 85.5% |
| | AC CURRENT (Typ.) | 2.25A/115VAC 1.3A/230VAC |
| | INRUSH CURRENT (Typ.) | 20A/115VAC 35A/230VAC |
| | LEAKAGE CURRENT | <1mA / 240VAC |
| | OVERLOAD | 105 ~ 130% rated output power |
| | | Protection type: Constant current limiting, recovers automatically after fault condition is removed |
| PROTECTION | | 14 ~ 17V |
| TROTEOTION | OVER VOLTAGE | Protection type : Shut down o/p voltage, re-power on to recover |
| | OVER TEMPERATURE | Shut down o/p voltage, re-power on to recover |
| | WORKING TEMP. | -20 ~ +70°C (Refer to "Derating Curve") |
| | WORKING HUMIDITY | 20 ~ 95% RH non-condensing |
| ENVIRONMENT | STORAGE TEMP., HUMIDITY | -40 ~ +85℃, 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 STANDARDS | UL508, TUV BS EN/EN62368-1, EAC TP TC 004 approved;(meet BS EN/EN60204-1) |
| SAFETY & | WITHSTAND VOLTAGE | I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC |
| EMC | ISOLATION RESISTANCE | //P-O/P, //P-FG, O/P-FG:>100M Ohms / 500VDC / 25℃/ 70% RH |
| (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 |
| | 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 | 2636.8K hrs min. Telcordia SR-332 (Bellcore) ; 453.3K hrs min. MIL-HDBK-217F (25°C) |
| | DIMENSION | 40*125.2*113.5mm (W*H*D) |
| | PACKING | 0.6Kg; 20pcs/13Kg/1.16CUFT |
| NOTE | 1. All parameters NOT special | ly mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. |
| | | ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor. |
| | ' | tolerance, line regulation and load regulation. |
| | | ered 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. | |
| | = | ider low input voltage. Please check the derating curve for more details. |
| | = - | erating of $3.5^\circ\!$ |
| | | |



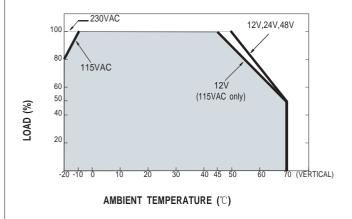


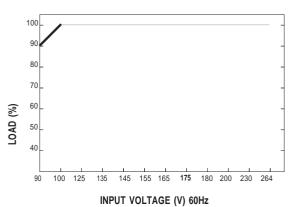
fosc: 70KHz



■ Derating Curve

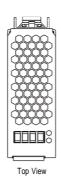
■ Static Characteristics



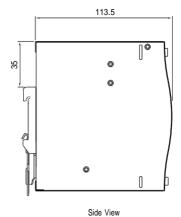


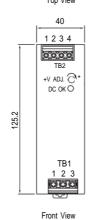


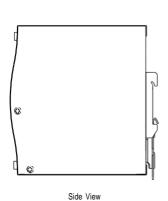
■ Mechanical Specification



Case No.992D Unit:mm







Bottom View

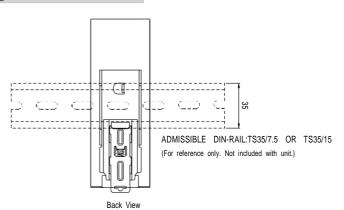
Terminal Pin No. Assignment (TB1)

| 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

Get more info to : https://www.led-card.com/manufacturer/meanwell/