

NDR-120 Series

120W Single Output Industrial DIN Rail



Case No: 8916GE
125.2 x 113.5 x 40mm

Features

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



Specification

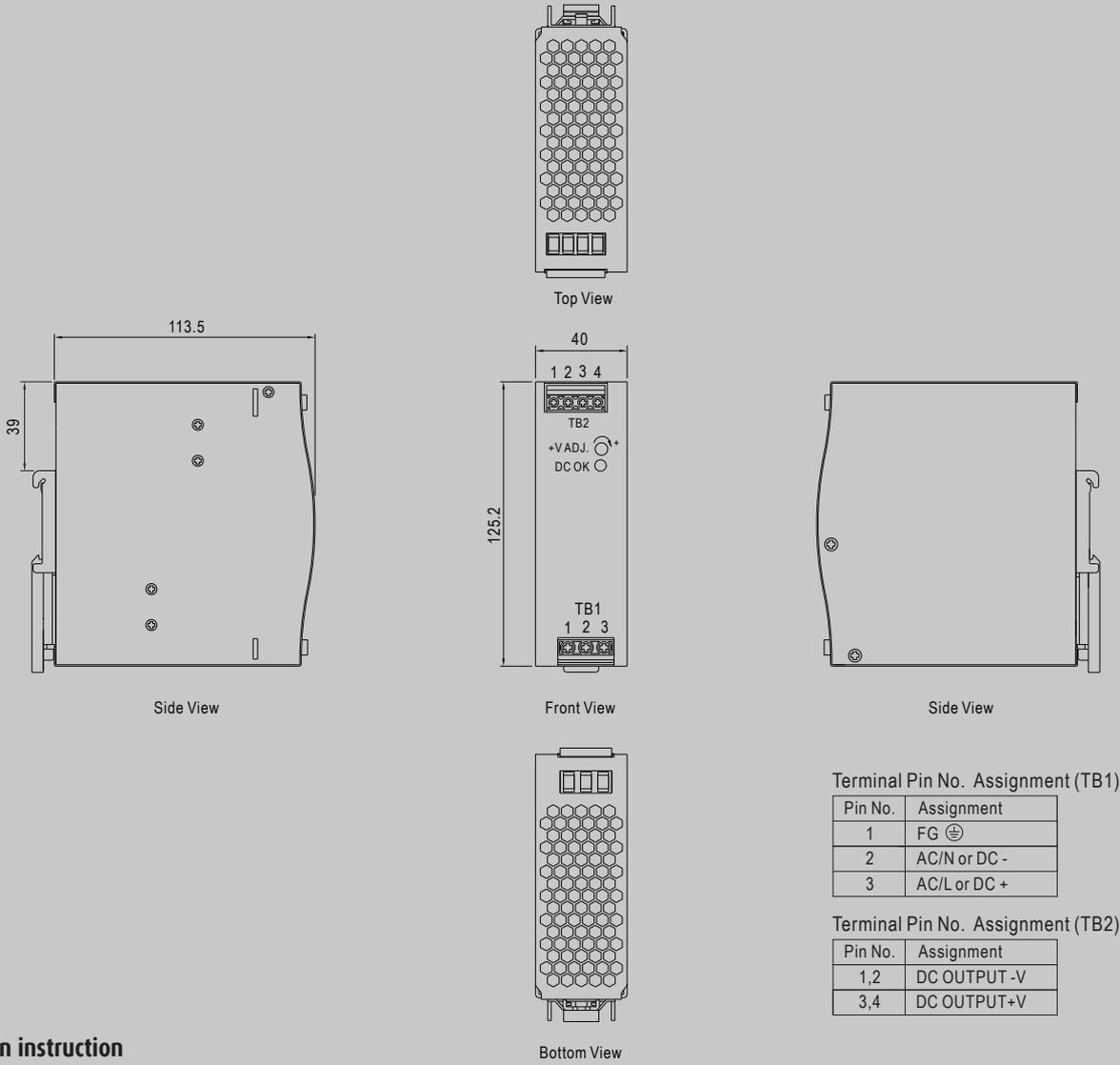
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|---------------------------------|--------------------------------|--|-------------------|-------------------|
| INPUT | Voltage | 90V~264VAC 127~370VDC (DC input operation possible by connecting AC/L (+), AC/N(-)) | | |
| | Frequency | 47 ~ 63 Hz | | |
| | Efficiency | 85.5% | 88% | 89% |
| | AC Current (Typ.) | 2.25A/115VAC 1.3A/230VAC | | |
| | Inrush Current (Typ.) | 20A/115VAC 35A/230VAC | | |
| | Leakage Current | <1mA/240VAC | | |
| | OUTPUT | MODEL No. | NDR-120-12 | NDR-120-24 |
| Voltage | | 12V | 24V | 48V |
| Rated Current | | 10A | 5A | 2.5A |
| Current Range | | 0~10A | 0~5A | 0~2.5A |
| Rated Power | | 120W | 120W | 120W |
| Ripple Noise MAX. | | 100Vp-p | 120Vp-p | 150mVp-p |
| Voltage Adjustment Range | | 12~14V | 24~28V | 48~55V |
| Voltage Tolerance | | ± 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 2500ms, 60ms/115VAC at full load | | |
| Holdup Time (Typ.) | | 16ms/230VAC 10ms/115VAC at full load | | |
| PROTECTION | Over Load | 105~130% rated output power Protection Type: Constant current limiting, recovers automatically after fault condition is removed | | |
| | Over Voltage | 14~17V | 29~33V | 56~65V |
| | | Protection Type: Shut down o/p voltage, re-power on to recover | | |
| | Over Temperature | Shut down o/p voltage, re-power on to recover | | |
| ENVIRONMENT | Working Temperature | -20~+70°C (Refer to "Derating Curve") | | |
| | Working Humidity | 20~95% RH non-condensing | | |
| | Storage Temp., Humidity | -40~ +85°C, 10~95%RH | | |
| | Temp. Co-efficient | ±0.03% / °C (0~50°C) | | |
| | Vibration | 10~500Hz, 2G 10min./1cycle, 60 min. each along X, Y, Z axes; Mounting: compliance to IEC60068-2-6 | | |
| SAFETY & EMC | Safety Standards | UL508, TUV EN60950-1 approved; meets 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/500Vdc/25°C/70% RH | | |
| | EMC Emission | Compliance to EN55022 (CISPR22), EN61204-3, Class B, EN61000-3-2,-3 | | |
| | EMC Immunity | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level, criteria A | | |
| OTHERS | M.T.B.F. | 456.3K hrs min. MIL-HDBK-217F (25°C) | | |
| | Packaging | 0.6Kg, 20pcs/13Kg/1.16CUFT | | |

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple and 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 as a component which will be installed with final equipment. The final equipment must 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. 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.
6. Derating may be needed under low input voltage. Please check the derating curve for more details.

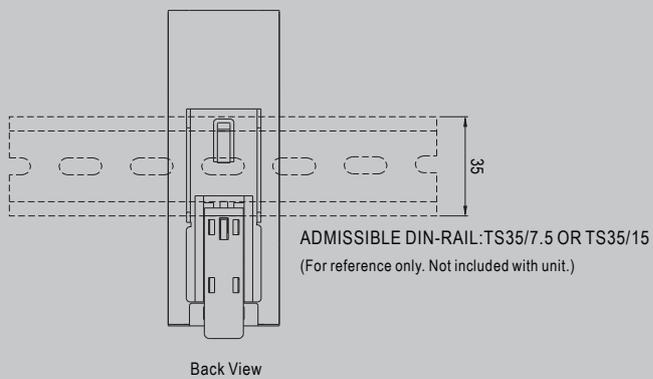
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Mechanical Specification



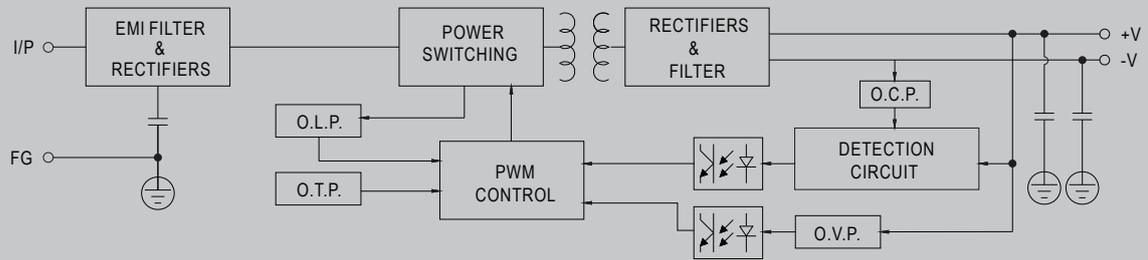
Installation instruction



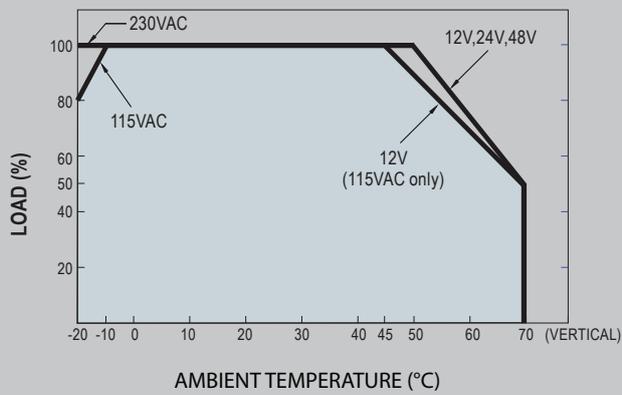
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Block Diagram



Derating Curve



Static Characteristics

