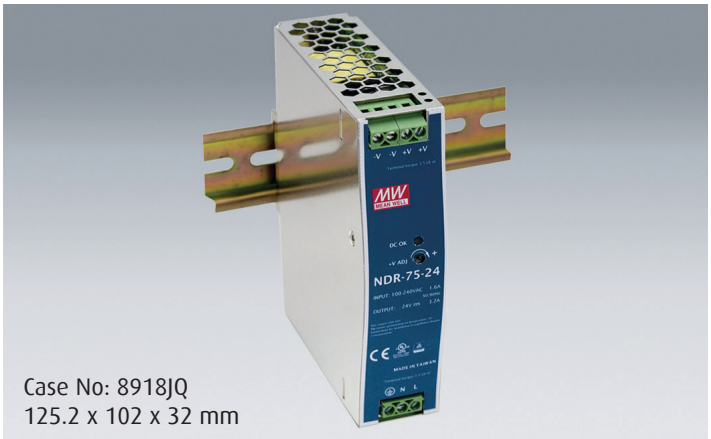
NDR-75 Series

75W Single Output Industrial DIN Rail



Case No: 8918JQ
125.2 x 102 x 32 mm

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
- 3 years warranty

Specification

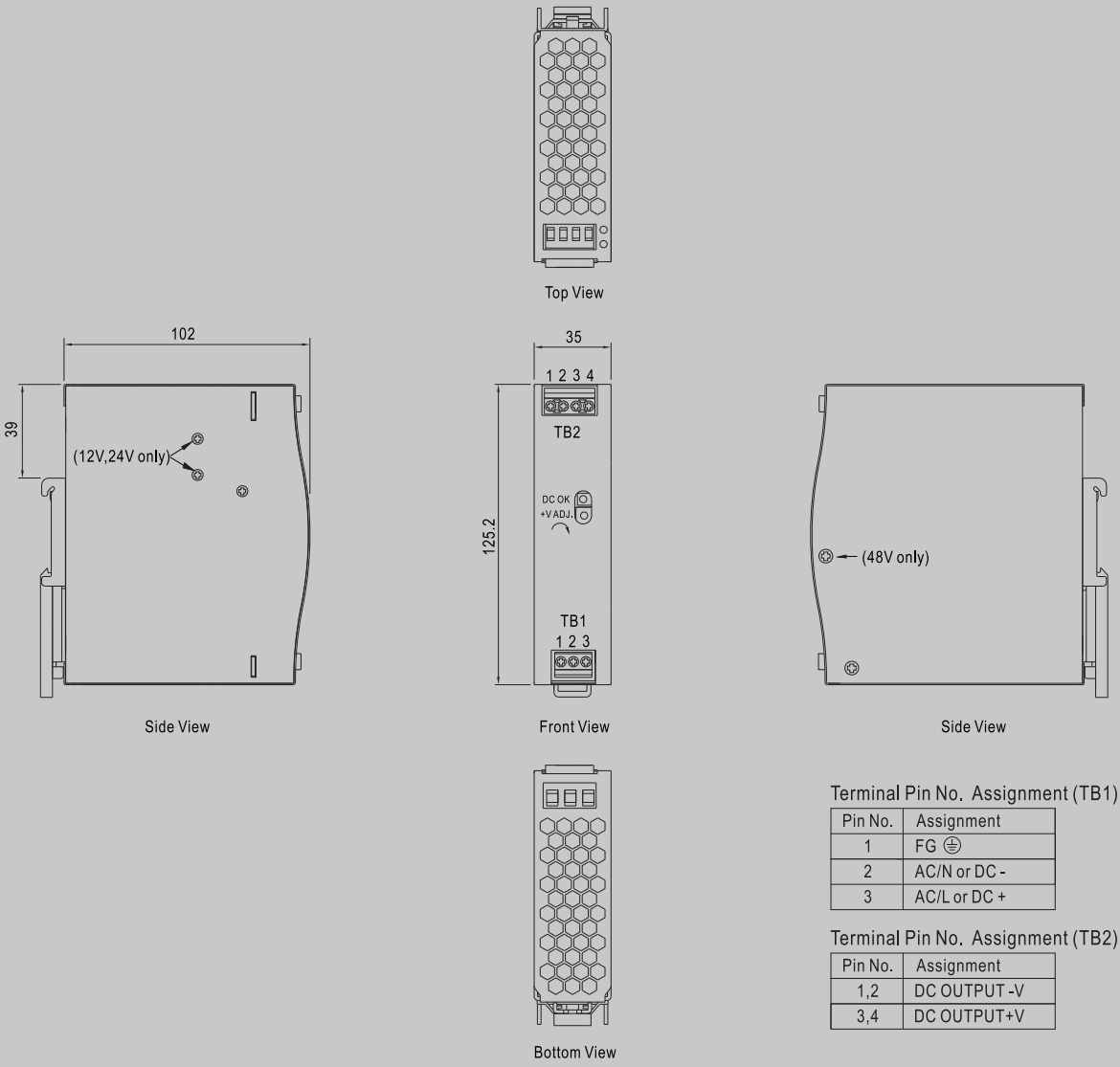
INPUT	**Voltage**	90V ~ 264VAC 127 ~ 370VDC (DC input operation possible by connecting AC/L (+), AC/N (-))		
	Frequency	47 ~ 63 Hz		
	Efficiency	85.5%	88%	89%
	AC Current (Typ.)	1.45A/115VAC 0.9A/230VAC		
	Inrush Current (Typ.)	20A/115VAC 35A/230VAC		
	Leakage Current	<1mA/240VAC		
OUTPUT	**MODEL No.**	**NDR-75-12**	**NDR-75-24**	**NDR-75-48**
	Voltage	12V	24V	48V
	Rated Current	6.3A	3.2A	1.6A
	Current Range	0~6.3A	0~3.2A	0~1.6A
	Rated Power	75.6W	76.8W	76.8W
	Ripple Noise MAX.	80mVp-p	120mVp-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 2000ms, 60ms / 115VAC at full load		
	Holdup Time (Typ.)	60ms / 230VAC 12ms / 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 Temp**	-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-OP, 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.**	486.2K hrs min. MIL-HDBK-217F (25°C)		
	Packaging	0.51Kg; 28pcs/15.3Kg/1.22CUFT		

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.
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.

NDR-75 Series

75W Single Output Industrial DIN Rail

Mechanical Specification



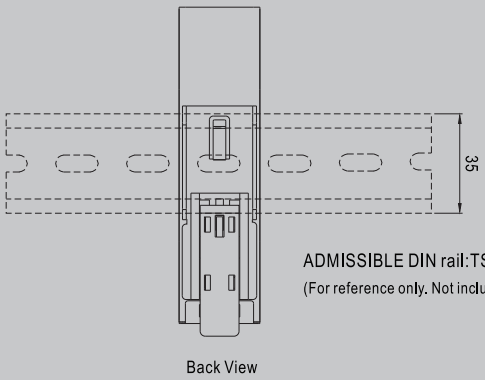
Terminal Pin No. Assignment (TB1)

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



ADMISSIBLE DIN rail:TS35/7.5 OR TS35/15

(For reference only. Not included with unit.)

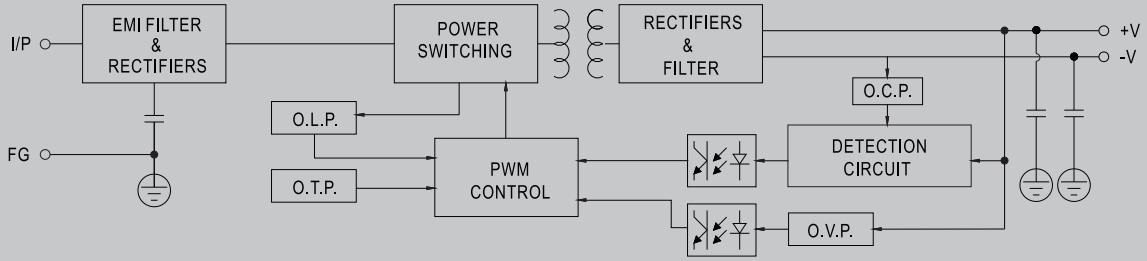
This series fits DIN rail TS35/7.5 or TS35/15.

For installation details, please refer to the USER MANUAL

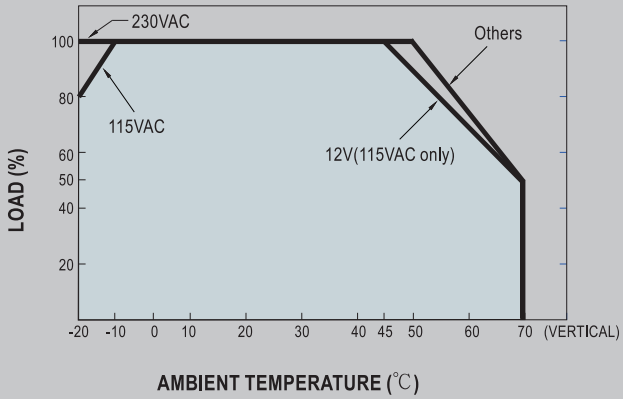
NDR-75 Series

75W Single Output Industrial DIN Rail

Block Diagram



Derating Curve



Static Characteristics