

# NDR-480 Series

## 480W Single Output Industrial DIN Rail



Case No: 8017HN  
85.5 x 125.2 x 128.5mm

### 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
- Built-in active PFC Function
- EN61000-6-2 (EN50082-2) industrial immunity level
- 100% full load burn-in test
- 3 years warranty



### Specification

INPUT	<b>Voltage</b>	90V~264VAC 127~370VDC	
	<b>Frequency</b>	47 ~ 63 Hz	
	<b>Power Factor</b>	PF>0.98/115VAC, PF>0.94/230VAC at full load	
	<b>AC Current (Typ.)</b>	4.8A/115VAC	2.4A/230VAC
	<b>Inrush Current (Typ.)</b>	20A/115VAC	35A/230VAC
	<b>Leakage Current</b>	<2mA/240VAC	
	<b>Efficiency</b>	92.5%	92.5%
OUTPUT	<b>MODEL No.</b>	<b>NDR-480-24</b>	<b>NDR-480-48</b>
	<b>Voltage</b>	24V	48V
	<b>Rated Current</b>	20A	10A
	<b>Current Range</b>	0~20A	0~10A
	<b>Rated Power</b>	480W	480W
	<b>Ripple Noise MAX.</b>	150Vp-p	150mVp-p
	<b>Voltage Adjustment Range</b>	24~28V	48~55V
	<b>Voltage Tolerance</b>	± 1.0%	± 1.0%
	<b>Line Regulation</b>	± 0.5%	± 0.5%
	<b>Load Regulation</b>	± 1.0%	± 1.0%
	<b>Setup Rise Time</b>	1500ms, 100ms/230VAC	3000ms, 100ms/115VAC at full load
<b>Holdup Time (Typ.)</b>	16ms/230VAC	16ms/115VAC at full load	
PROTECTION	<b>Over Load</b>	105~130% rated output power Protection Type: Constant current limiting, unit will shut down after 3 seconds, re-power on to recover	
	<b>Over Voltage</b>	29~33V	56~65V
		Protection Type: Shut down o/p voltage, re-power on to recover	
	<b>Over Temperature</b>	Shut down o/p voltage, recovers automatically after temperature goes down	
ENVIRONMENT	<b>Working Temperature</b>	-20~+70°C (Refer to "Derating Curve")	
	<b>Working Humidity</b>	20~95% RH non-condensing	
	<b>Storage Temp., Humidity</b>	-40~ +85°C, 10~95%RH	
	<b>Temp. Co-efficient</b>	±0.03% / °C (0~50°C)	
	<b>Vibration</b>	Component: 10~500Hz, 2G 10min./1cycle, 60 min. each along X, Y, Z axes; Mounting: compliance to IEC60068-2-6	
SAFETY & EMC	<b>Safety Standards</b>	UL508, TUV EN60950-1 approved; meets EN60204-1	
	<b>Withstand Voltage</b>	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC	
	<b>Isolation Resistance</b>	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms/500Vdc/25°C/70% RH	
	<b>EMC Emission</b>	Compliance to EN55022 (CISPR22), EN61204-3, Class B, EN61000-3-2,-3	
	<b>EMC Immunity</b>	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	<b>M.T.B.F.</b>	146.8K hrs min. MIL-HDBK-217F (25°C)	
	<b>Packaging</b>	1.5Kg, 8pcs/13Kg/0.9CUFT	

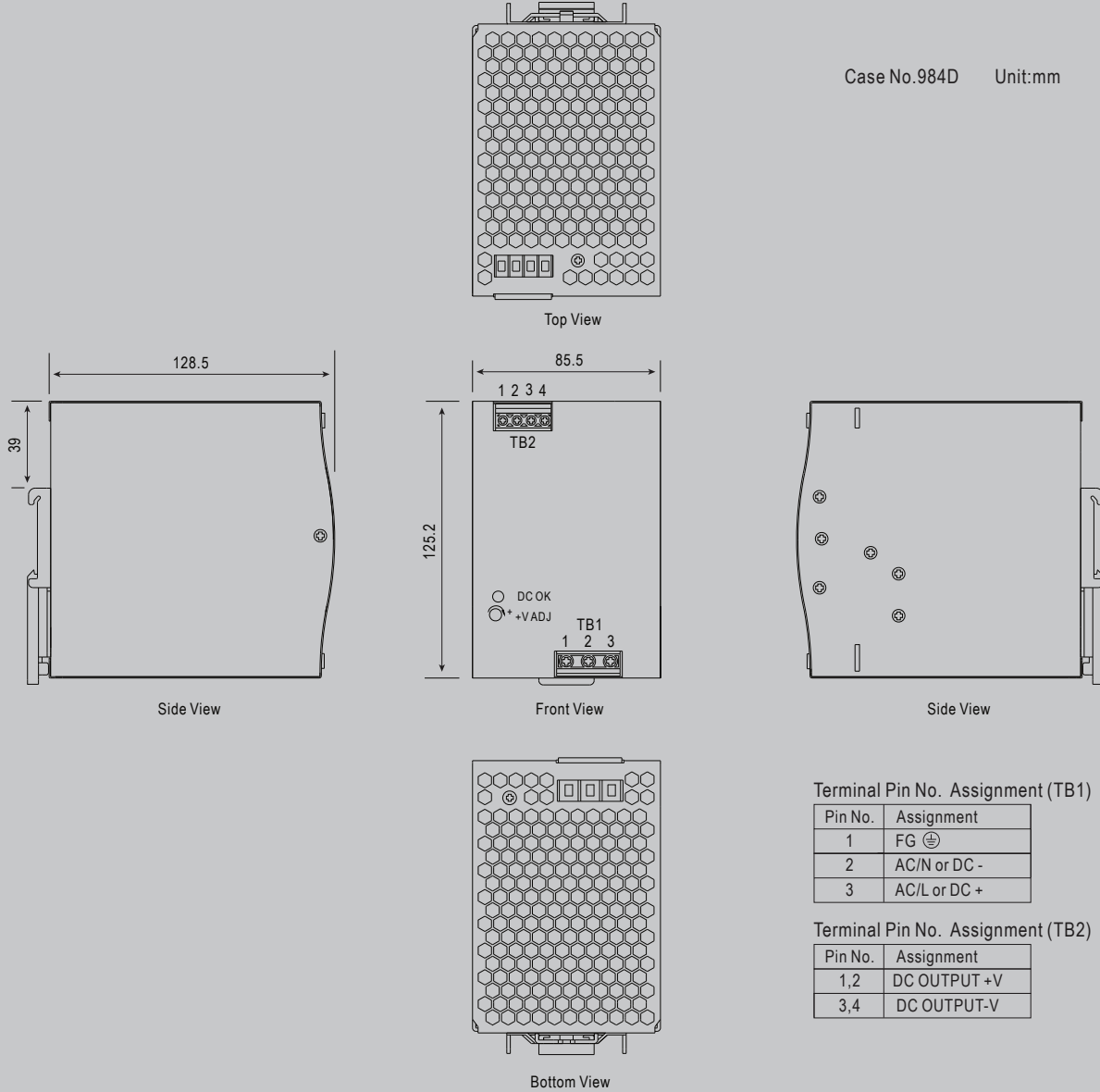
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple and noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.
3. Tolerance: includes set up tolerance, line regulation and load regulation.
4. Derating may be needed under low input voltage. Please check the derating curve for more details.
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. 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."

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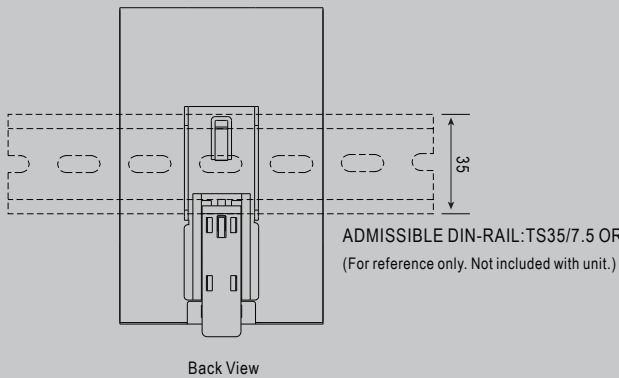
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## Mechanical Specification

Case No.984D Unit:mm



## Installation instruction

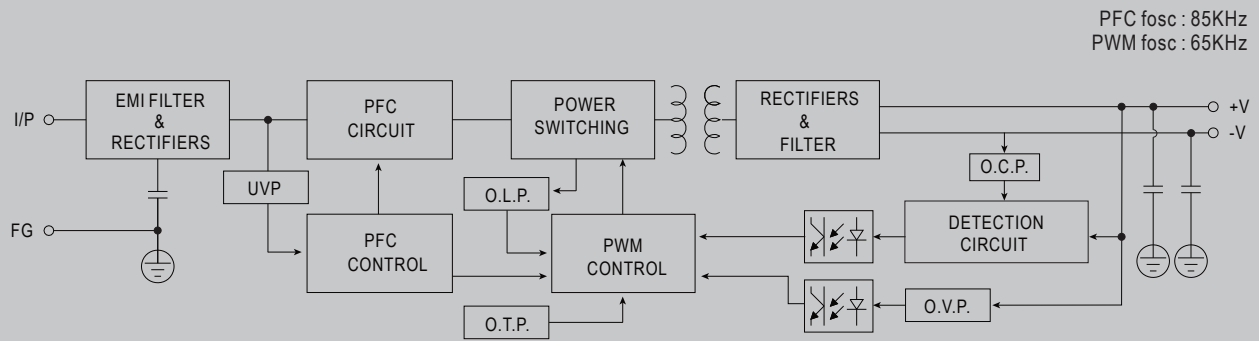


This series fits DIN-RAIL TS35/7.5 or TS35/15.  
For installation details, please refer to the USER MANUAL on  
[http://www.meanwell.com/search/NDR-480/NDR\\_manual.pdf](http://www.meanwell.com/search/NDR-480/NDR_manual.pdf)

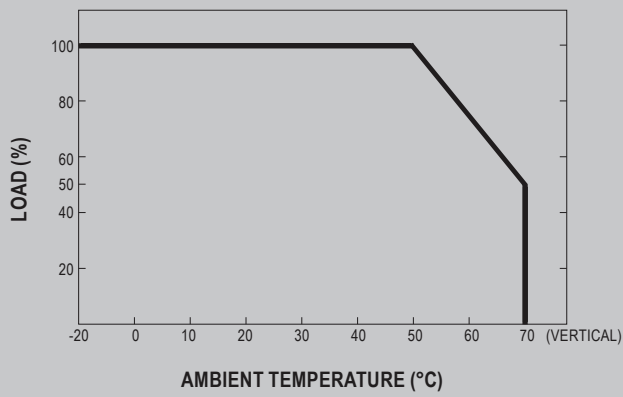
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## Block Diagram



## Derating Curve



## Static Characteristics

