



















Features

- · Universal AC input / Full range
- · Built-in active PFC function
- · 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
- BS EN/EN61000-6-2(BS EN/EN50082-2) industrial immunity level
- · 100% full load burn-in test
- · 3 years warranty

Description

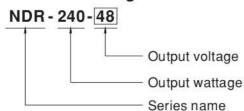
· Cooling by free air convection

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



Applications

- · Industrial control system
- · Semi-conductor fabrication equipment
- · Factory automation
- · Electro-mechanical

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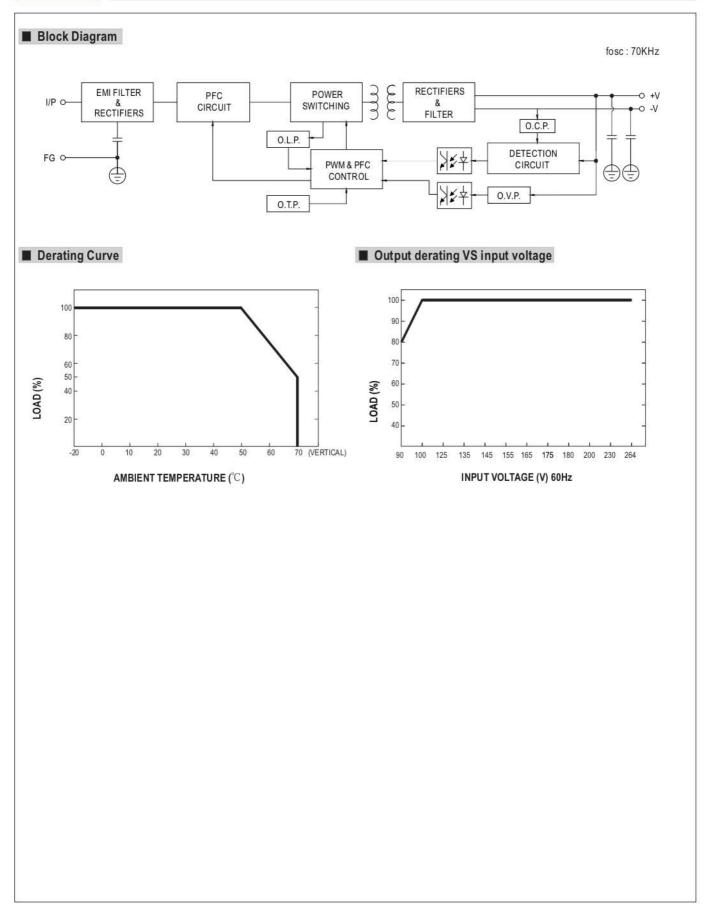
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SPECIFICATION

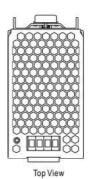
	NDR-240-24	NDR-240-48	
DC VOLTAGE	24V	48V	
RATED CURRENT	10A	5A	
CURRENT RANGE	0~10A	0~5A	
RATED POWER	240W	240W	
RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	
VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 55V	
VOLTAGE TOLERANCE Note.3	±1.0%	土1.0%	
LINE REGULATION	±0.5%	±0.5%	
LOAD REGULATION	±1.0%	±1.0%	
SETUP, RISE TIME	and the state of t		
HOLD UP TIME (Typ.)	28ms/230VAC 22ms/115VAC at full load	100 miles (100 miles (
	AND THE PROPERTY OF THE PROPER		
	VANC-11 (2772.1.33)		
		90%	
	1.00 (20.00 CM)	30/0	
	A CONTRACTOR OF THE CONTRACTOR		
LLANAGE CONNENT	ROWER TO MANAGE		
OVERLOAD		re outomatically ofter fault condition is removed	
		•	
OVER VOLTAGE		56 ~ 65V	
	Protection type: Shut down o/p voltage, re-power on to recover		
End Section Control of Control of Control		er temperature goes down	
	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		
VIBRATION			
SAFETY STANDARDS	UL508, TUV BS EN/EN62368-1, EAC TP TC 004, BSMI CNS14336-1, IS13252(Part1)/IEC60950-1 ,KC K60950-1 (for 48V only)approved; (meet BS EN/EN60204-1)		
4	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 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 EN/EN55035, BS EN/EN61000-6-2 (BS EN/EN50082-2), BS EN/EN61204-3, heavy industry level, EAC TP TC 020,KSC 9835(for 48V only)		
MTBF	1645.2K hrs min. Telcordia SR-332 (Bellcore);		
DIMENSION	63*125.2*113.5mm (W*H*D)	* *	
PACKING	1Kg; 12pcs/13Kg/1.22CUFT		
 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Derating may be needed under low input voltage. Please check the derating curve for more details. Installation dearances: 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. The power supply is considered a component which will be installed into a final equipment. The final equipment must be 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." (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). 			
	RATED CURRENT 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.) AC CURRENT (Typ.) INRUSH CURRENT OVERLOAD OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specia 2. Ripple & noise are measur 3. Tolerance: includes set up 4. Derating may be needed u 5. Installation dearances: 40r In case the adjacent device 6. The power supply is conside 6. The power supply is conside	DC VOLTAGE RATED CURRENT 10A CURRENT RANGE 0 ~ 10A RATED POWER 240W RIPPLE & NOISE (max.) Note.2 150mVp-p VOLTAGE ADJ. RANGE 24 ~ 28V VOLTAGE TOLERANCE Note.3 ± 1.0% LINE REGULATION ± 0.5% LOAD REGULATION ± 1.0% SETUP, RISE TIME 1500ms, 100ms/230VAC 3000ms, 100ms/11 HOLD UP TIME (Typ.) 28ms/230VAC 22ms/115VAC at full load VOLTAGE RANGE Note.4 90 ~ 264VAC 127 ~ 370VDC FREQUENCY RANGE 47 ~ 63Hz POWER FACTOR (Typ.) PF-0.98/115VAC, PF>0.95/230VAC at full load EFFICIENCY (Typ.) 88.5% AC CURRENT (Typ.) 2.5A/115VAC 1.3A/230VAC INBUSH CURRENT (Typ.) 20A/115VAC 35A/230VAC LEAKAGE CURRENT OVERLOAD OVER VOLTAGE OVER VOLTAGE OVER VOLTAGE OVER TEMPERATURE Shut down of yoltage, recovers automatically after the component of the component	



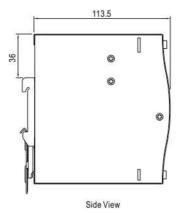


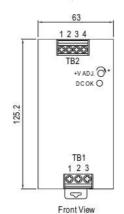


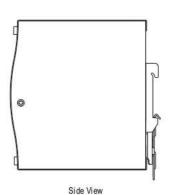
■ Mechanical Specification

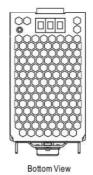


Case No.979C Unit:mm









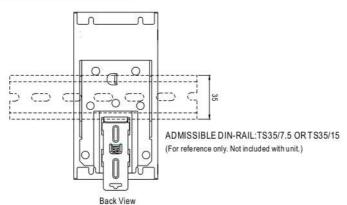
Terminal Pin No. Assignment (TB1)

Pin No.	Assignment
1	FG 🕀
2	AC/N or DC -
3	AC/Lor 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





















Features

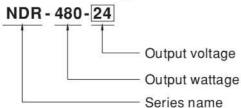
- · Universal AC input / Full range
- · Built-in active PFC function
- · Protections: Short circuit / Overload / Over voltage / Over temperature
- · Cooling by free air convection
- · Can be installed on DIN rail TS-35/7.5 or 15
- UL 508 (industrial control equipment) approved
- BS EN/EN61000-6-2(BS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

Description

NDR-480 is one economical slim 480W Din rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 85.5mm 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-480 is designed with metal housing that enhances the unit's power dissipation. With working efficiency up to 92.5%, 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-480 a very competitive power supply solution for industrial applications.

Model Encoding



Applications

- · Industrial control system
- · Factory automation
- · Electro-mechanical apparatus

GTIN CODE

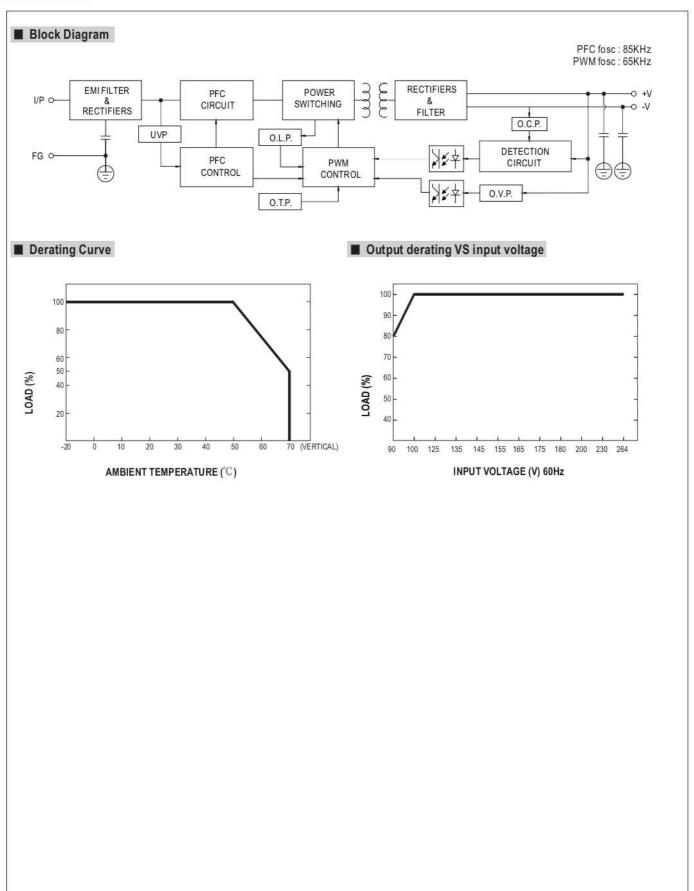
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SPECIFICATION

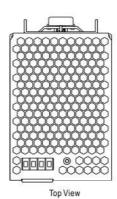
MODEL		NDR-480-24	NDR-480-48	
	DC VOLTAGE	24V	48V	
OUTPUT	RATED CURRENT	20A	10A	
	CURRENT RANGE	0~20A	0~10A	
	RATED POWER	480W	480W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	
	VOLTAGE ADJ. RANGE	24~28V	48 ~ 55V	
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	
	LOAD REGULATION	±1.0%	±1.0%	
	SETUP, RISE TIME	1500ms, 100ms/230VAC 3000ms, 100ms/115VAC at full lo	ad	
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load		
	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.94/230VAC at full load		
INPUT	EFFICIENCY (Typ.)	92.5%	92.5%	
	AC CURRENT (Typ.)	4.8A/115VAC 2.4A/230VAC		
	INRUSH CURRENT (Typ.)	20A/115VAC 35A/230VAC		
	LEAKAGE CURRENT	<2mA / 240VAC		
		105 ~ 130% rated output power		
	OVERLOAD	Protection type: Constant current limiting, unit will shut down	after 3 sec., re-power on to recover	
PROTECTION		29~33V	56 ~ 65V	
PROTECTION	OVER VOLTAGE	Protection type : Shut down o/p voltage, re-power on to recover	00 001	
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature	goes down	
	WORKING TEMP.	-20 ~ +70 °C (Refer to "Derating Curve")	SECTION OF THE SECTIO	
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH		
E.T. I. C.	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	UI508, TUV BS EN/EN62368-1, EAC TP TC 004 , BSMI CNS14336-1 , IS13252(Part1)/IEC60950-1 (except for 48V) approved; (meet BS EN/EN60204-1)		
SAFETY &	WITHOUTHOUTH			
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C/ 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,CNS13438 Class B		
	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		
	MTBF	1041.6K hrs min. Telcordia SR-332 (Bellcore); 146.8K hrs mi	n. MIL-HDBK-217F (25°C)	
OTHERS	DIMENSION	85.5*125.2*128.5mm (W*H*D)		
	PACKING	1.5Kg; 8pcs/13Kg/0.9CUFT		
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Installation dearances: 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. Derating may be needed under low input voltage. Please check the derating curve for more details. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 			



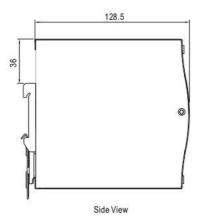


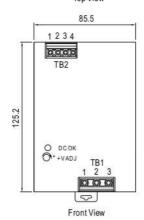


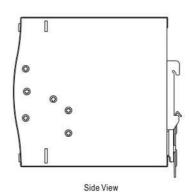
■ Mechanical Specification

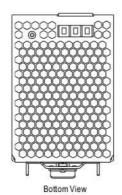


Case No.984D Unit:mm









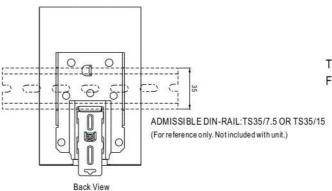
Terminal Pin No. Assignment (TB1)

Pin No.	Assignment
1	FG 🕀
2	AC/N or DC -
3	AC/LorDC+

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