NDR-240 Guide rail power supply Series



DIMENSION：63*125.2*113.5mm

Features:

- Universal AC input/Full range
- Protections: Short circuit/Overload/Over voltage/Over temperature
- Cooling by free air convection
- Built-in EMI filter with minimal Bellows
- Power Protection Level : IP31
- 100% full load burn-in test
- Complay with EN55022:2010+AC：2010+AC：2011/EN61000-3-2 and EN61000-4-2,3,4,5,6,8,11/EN60950-1
- 3-year quality assurance (two replacement per year, free maintenance for two years)

SPECIFICATION

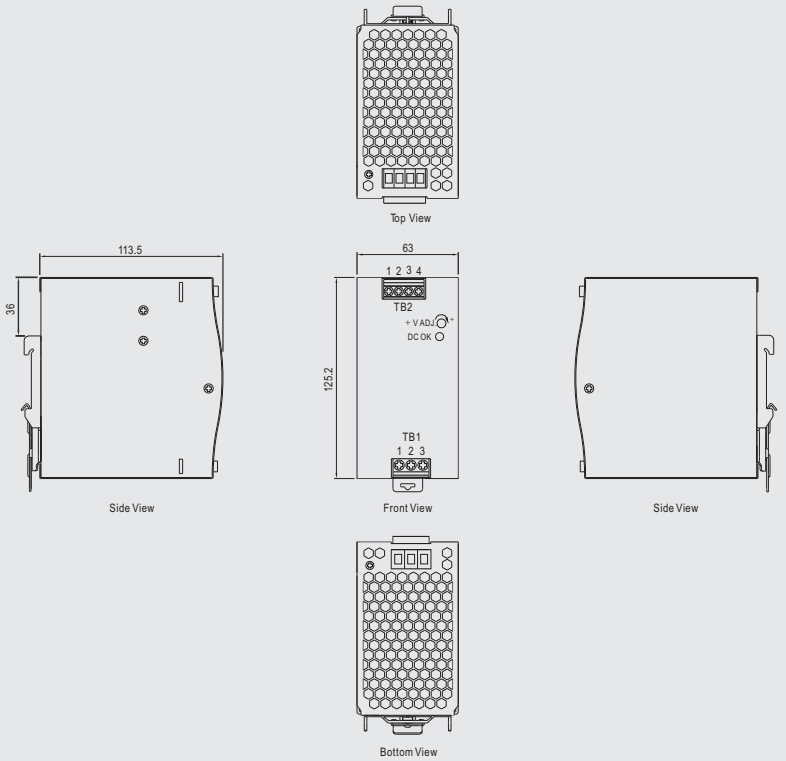
CE RoHS

MODEL		NDR-240-24	NDR-240-48
OUTPUT	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%	±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 load)	
	HOLD UP TIME (Typ)	28ms/230VAC 22ms/115VAC(at full load)	
INPUT	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%	90%
	AC CURRENT (Typ.)	2.5A/115VAC 1.3A/230VAC	
	INRUSH CURRENT (Typ.)	20A/115VAC 35A/230VAC	
	LEAKAGE CURRENT	< 1mA/240VAC	
PROTECTION	OVERLOAD	105%~130% rated output power	
		Protection type : Constant current limiting, recovers automatically after fault condition is removed	
	OVER VOLTAGE	29~33V	56~65V
		Protection type : Shut down o/p voltage, re-power on to recover	
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down	
ENVIRONMENT	WORKINF TEMP.	-20℃~+70℃ (Refer to "Derating Curve")	
	WORKING HUMIDITY	20~95%RH non-condensing	
	STORAGE TEMP., HUNIDITY	-40~+85℃ , 10~95%RH	
	TEMP. COEFFICIENT	±0.03%/℃ (0~50℃)	
	VIBRATION	Component : 10~500Hz,2G 10min./1 cycle , 60min. each along X,Y,Z axes; Mounting: Compliance IEC60068-2-6	
SAFETY& EMC (Note.4)	SAFETY STANDARDS	UI508, TUV BS EN/EN62368-1,EAC TP TC 004, BSMI CNS14336-1, IS13252(Part1)/IEC60950-1 approved; (meet BS EN/EN60204-1)	
	WITHSTAND VOLTAGE	I/P-O/P : 2KVAC 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℃/70%RH	
	EMC EMISSION	Compliance to BS EN/EN55032(CISPR32),BS EN/EN61204-3 Class B,BS EN/EN61000-3-2,EAC TP TC 020, CNS13438	
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11,BS EN/EN55024, BS EN/EN61000-6-2(BS EN/EN50082-2), BS EN/EN61204-3, heavy industry level, criteria A , EAC TP TC 020	
OTHERS	MTBF	≥230.2K hrs. MIL-HDBK-217F(25℃)	
	DIMENSION	63*125.2*113.5mm(W*H*D)	
	PACKING	1Kg; 12pcs/13Kg/1.22CUFT	
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & 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 ragulation and load regulation. 4. The power supply is considered a component which will be installed into final equipment. The final equipment must be 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 soure, 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

measurement unit : mm



Terminal Pin No. Assignment (TB1)

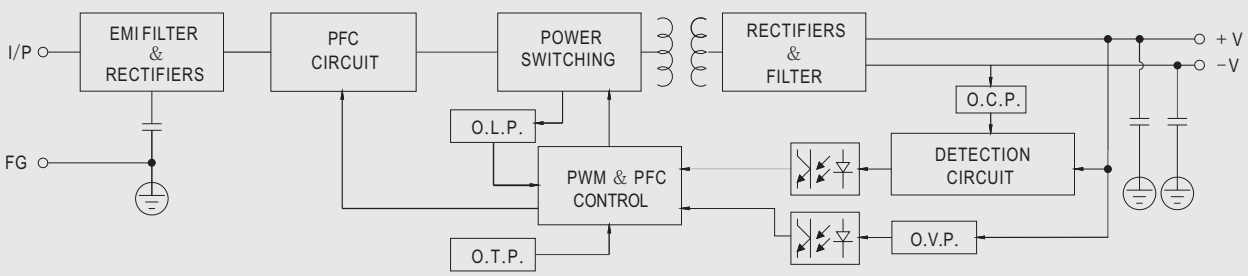
Pin No.	Assignment
1	FG ⏚
2	AC/N or DC −
3	AC/L or DC +

Terminal Pin No. Assignment (TB2)

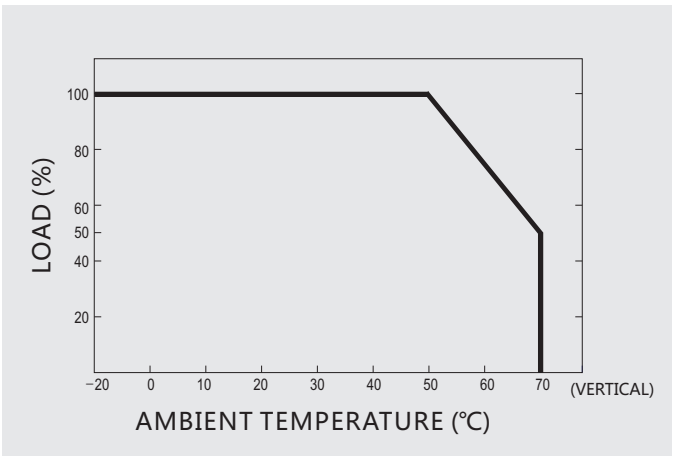
Pin No.	Assignment
1,2	DC OUTPUT −V
3,4	DC OUTPUT+ V

Block Diagram

fosc : 70KHz



Derating Curve



Output derating VS input voltage

