

## NDR-120-48



120W Single Output Industrial DIN RAIL Power Supply

## **Features**

- Universal AC input / Full range
- 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
- EN61000-6-2 (EN50082-2) industrial immunity level
- 100% full load burn-in test
- 3 years warranty











## Specification

MODEL		NDR-120-48
MODEL	DOVOLTAGE	
ОИТРИТ	DC VOLTAGE	48V
	RATED CURRENT	2.5A
	CURRENT RANGE	0~2.5A
	RATED POWER	120W
	RIPPLE & NOISE (max.) Note.2	150mVp-p
	VOLTAGE ADJ. RANGE	48 ~ 55V
	VOLTAGE TOLERANCE Note.3	±1.0%
	LINE REGULATION	±0.5%
	LOAD REGULATION	±1.0%
	SETUP, RISE TIME	1200ms, 60ms/230VAC 2500ms, 60ms/115VAC at full load
	HOLD UP TIME (Typ.)	16ms/230VAC 10ms/115VAC at full load
	VOLTAGE RANGE Note.6	90 ~ 264VAC 127 ~ 370VDC
		[DC input operation possible by connecting AC/L(+), AC/N(-)]
	FREQUENCY RANGE	47 ~ 63Hz
INPUT	EFFICIENCY (Typ.)	89%
	AC CURRENT (Typ.)	2.25A/115VAC 1.3A/230VAC
	INRUSH CURRENT (Typ.)	20A/115VAC 35A/230VAC
	LEAKAGE CURRENT	<1mA / 240VAC
	OVERLOAD	105 ~ 130% rated output power
		Protection type: Constant current limiting, recovers automatically after fault condition is
		removed
PROTECTION	OVER VOLTAGE	56 ~ 65V
		Protection type : Shut down o/p voltage, re-power on to recover
İ	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover
	WORKING TEMP.	-20 ~ +70°C (Refer to "Derating Curve")
SAFETY & EMC (Note 4)	WORKING TEMP.	20 ~ 95% RH non-condensing
	STORAGE TEMP., HUMIDITY	-40 ~ +85 °C, 10 ~ 95% RH
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)
	TEIVIP. CUEFFICIENT	
	VIBRATION	Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting:
		Compliance to IEC60068-2-6
	SAFETY STANDARDS	UL508, TUV EN60950-1, EAC TP TC 004 approved; (meet 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 EN55032 (CISPR32), EN61204-3 Class B, EN61000-3-2,-3,
		EAC TP TC 020
	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, EAC TP TC 020



## Innovation to your needs

MODEL		NDR-120-48
OTHERS	MTBF	456.3K hrs min. MIL-HDBK-217F (25°C)
	DIMENSION	40*125.2*113.5mm (W*H*D)
	PACKING	0.6Kg; 20pcs/13Kg/1.16CUFT
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance: includes set up tolerance, line regulation and load regulation.</li> <li>The power supply is considered a component which will be installed into a final equipment. The final equipment must be reconfirmed that it still meets EMC directives.</li> <li>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.</li> <li>Derating may be needed under low input voltage. Please check the derating curve for more details.</li> <li>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).</li> </ol>	





