

NDR-120-48

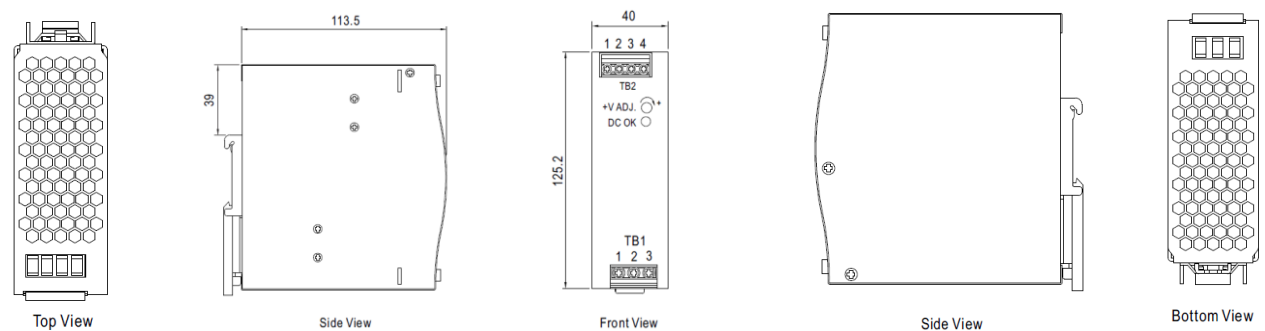
120W Single Output Industrial DIN RAIL



NDR-120-48 is one economical slim 120W DIN rail power supply, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 40mm in width, which allows space saving inside the cabinets. The machine adopts the full range AC input from 90VAC to 264VAC and conforms to EN61000-3-2, the norm the European Union regulates for harmonic current. NDR-120-48 is designed with metal housing that enhances the unit's power dissipation. With working efficiency up to 89%, the product can operate at the ambient temperature between -20℃ and 70℃ under air convection. It is equipped with constant current mode for overload protection, fitting various inductive or capacitive applications. The complete protection functions and relevant certificates for industrial control apparatus (UL508, TUV EN60950-1, and etc) make NDR-120-48 is a very competitive power supply solution for industrial applications.

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

Dimension:



Technical Specifications

120W Single Output Industrial DIN RAIL

Model#
NDR-120-48

Output	
DC voltage	48V
Rated current	2.5A
Current range	0~2.5A
Rated power	120W
Ripple & noise	150mVp-p
Voltage ADJ. range	48~55V
Voltage tolerance	±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	16ms/230VAC 10ms/115VAC at full load

Input	
Voltage range	90~264VAC 127~370VDC [DC input operation possible by connecting AC/L(+), AC/N(-)]
Frequency range	47~63Hz
Efficiency	89%
AC current	2.25A/115VAC 1.3A/230VAC
Inrush current	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 temperature	Shut down o/p voltage, re-power on to recover
Over voltage	56~65V
	Protection type : Shut down o/p voltage, re-power on to recover

Environment

Working temperature	-20~+70℃
Working humidity	20~95% RH non-condensing
Storage temp., humidity	-40~+85℃, 10~95% RH
Temp. coefficient	±0.03%/℃ (0~50℃)
Vibration	Component:10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6

Safety & EMC

Safety standards	UI508, TUV EN60950-1 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℃ / 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

MTBF	456.3K hrs min. MIL-HDBK-217F (25℃)
Dimension	40*125.2*113.5mm (W*H*D)
Packing	0.6Kg; 20pcs/13Kg/1.16CUFT