

NDR-240W series Aluminum shell rail type switch power supply

1. NDR-240W is designed with a metal case to enhance heat dissipation and improve efficiency. It has a working efficiency of up to 90% and can operate in the temperature range of -20°C to 60°C under air circulation conditions. It features constant current mode overload protection and is suitable for a variety of inductive or capacitive load applications. Complete protection functions and compliance with industrial standards (IEC/EN 62368-1 and others) make the NDR-240W a highly competitive power supply solution for industrial applications.

- 2.Features :
- International universal full range exchange input
 - Protection type: short circuit/overload/overvoltage/overtemperature
 - Natural air cooling
 - Can be installed on TS-35/7.5 or 15
 - BS EN/EN61000-6-2 (BS EN/EN50082-2) Industrial Immunity
 - 100% full load aging
 - 3-year quality assurance

- 3.Application: Industrial control system
Semiconductor manufacturing equipment
Factory Automation
Mechanical and electrical equipment

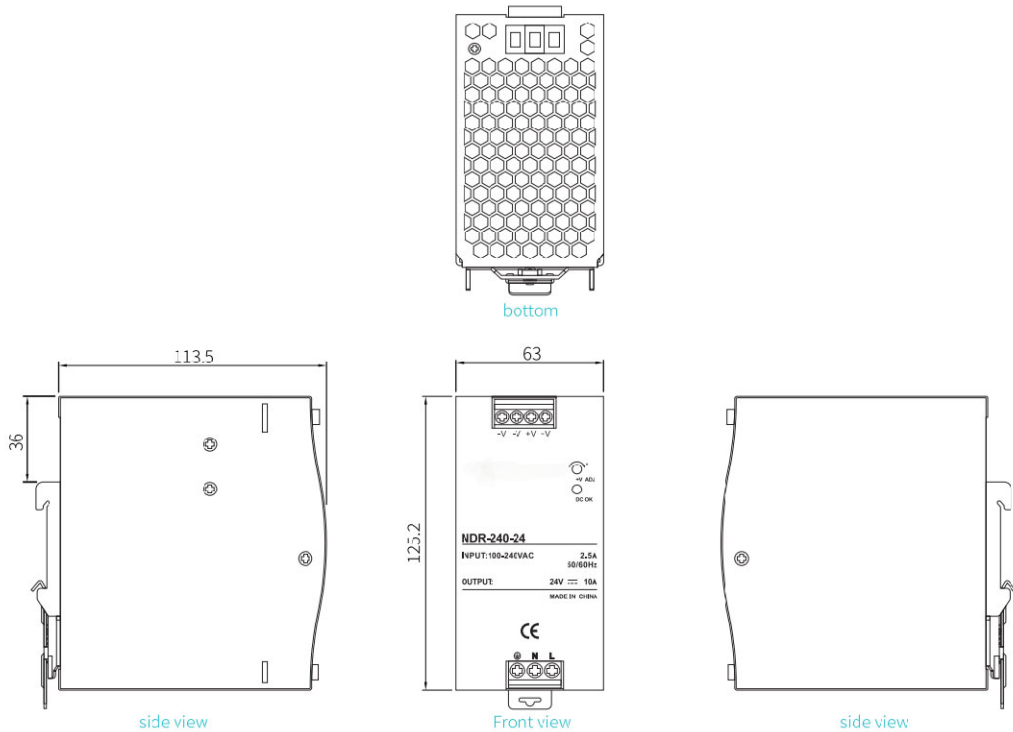


4.Specifications

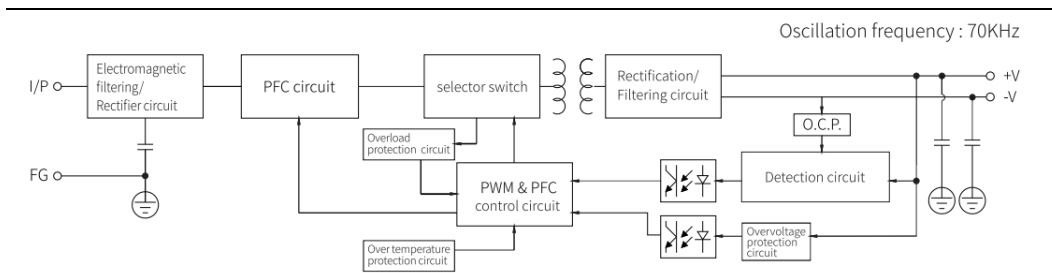
Model		NDR-240-24	NDR-240-48
Output	DC voltage	24V	48V
	Rated current	10A	5.0A
	Current range	0~10A	0~5.0A
	Rated power	240W	240W
	Ripple&noise	240mvp-p	500mvp-p
	DCvoltage ADJ.range	$\pm 5\%$	$\pm 5\%$
	Voltage accuracy	$\pm 2\%$	$\pm 2\%$
	Linear adjustment rate	$\pm 0.5\%$	$\pm 0.5\%$
	Load adjustment rate	$\pm 2\%$	$\pm 2\%$
	Start, rise, hold time	800ms,50ms,16ms/230VAC(At full load)	
Input	Input voltage range	100~240VAC, 47~63Hz, 141~339VDC (Can withstand 300VAC surge input for 5 seconds without damage)	
	AC input voltage	2.5A/115VAC 1.3A/230VAC	
	Efficiency	86%	88%
	Surge current	Cold start current 25A/115VAC, 50A/230VAC	
	Leakage current	<3.5mA/220VAC	
	Power factor	PF>0.98/115VACPF>0.95/230VAC(full load)	
Protection	Over load	Rated output power110%~140% start over load protection protection type:Hiccup mode, automatically restored after removing abnormal load conditions	
	Over voltage	Rated output voltage 115%~135% startup overvoltage protection protection type: Hiccup mode, automatically restores normal output after removing abnormal conditions	
	Over temperature	Turn off the output, and normal output can be restored after power restart	

Environm ent	Working temp,humidity	-20℃~+60℃ , 20%~90%RH
	Storage temp,humidity	-40℃~+85℃ , 10%~95%RH non-condensing
	Withstand vibration	10~500HZ, 3G 10min/1cycle, duration of 60 minutes, each axis
Safety	Withstand voltage	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC
	Isolated resistance	I/P-O/P,I/P-FG,O/P-FG:100M ohms/500VDC
Fit standard	Safety standards	IEC/EN62368-1, EN61558-1
	EMC emission	Compliant with IEC/EN55032 (CISPR32) class B, IEC/EN61000-3-2, class A
	EMC immunity	Compliant with IEC/EN55035, IEC/EN61000-6-2, IEC/EN61000-4-2、3、4、5、6、8
Others	Dimension	63*125.2*113.5mm (W*H*D)
	Weight/packing	0.85kg/18pcs/16.3kg/0.027m ³ /0.93CUFT
Note	1. Unless otherwise specified, all specifications are measured under the input of 230VAC, rated load, and ambient temperature of 25℃. 2. Measurement method for ripple and noise: use a 12" twisted pair cable, and terminals must be parallel with 0.1uf and 47uf capacitors at 20MHZ bandwidth. 3. Accuracy: includes setting error, linear regulation rate, and load regulation rate. 4. Measurement method for linear regulation rate: test from low voltage to high voltage at rated load. 5. Measurement method for load regulation rate: from 0% to 100% rated load. 6. The power supply should be considered as part of the system components and needs to be confirmed for electromagnetic compatibility related issues when combined with the end equipment.	

5. Dimensional drawing

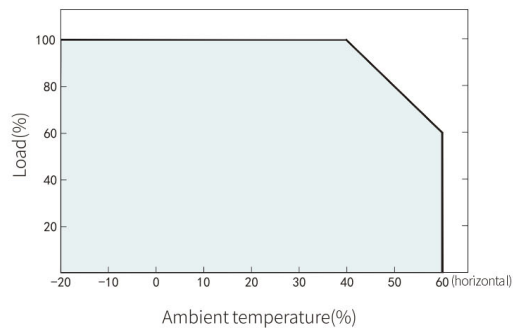


6. Block diagram



7.

Load reduction curve



Static characteristic curve

