

■ Features

- Single output to 50W
- Input voltage range: 90-264V
- Output current(1100mA-4200mA)
- Efficiency to 84%
- Protections: OVP, SCP, OTP and OCP
- Single phase input
- LED indicator for DC power on
- LED indicator for DC low
- 3-year warranty



*Product images are for illustrative purposes only and may vary from actual design.

■ Applications

- Process control
- Factory automation
- Traffic & Transportation system
- Other industrial applications

■ Model List*(See part number scheme for model number details)

Model Number	Input Voltage	Output Power	Output Voltage	Output Current Min.	Output Current Max.	Efficiency	Ripple	Certificates
DR-50-12	90–264Vac	50W	12V	0	4.2A	80%	32mV	UL/cUL/FCC/CE/CB
DR-50-24	90–264Vac	50W	24V	0	2.2A	83%	42mV	UL/cUL/FCC/CE/CB
DR-50-48	90–264Vac	50W	48V	0	1.1A	84%	46mV	UL/cUL/FCC/CE/CB

Note:

1. The ripple values are measured at 20MHz of bandwidth by using 12" twisted pair-wire terminated with 0.1uF & parallel capacitor under ambient temperature 25°C at rated input voltage and rated load.
2. The efficiency values are measured under ambient temperature 25°C at rated input voltage and rated load.

■ Technical Data

Input voltage	90-264Vac
Input frequency	47-63Hz
Input current	115Vac: 1.06A, 230Vac: 0.52A Full load
Inrush current (note 1)	115Vac: 30A, 230Vac: 60A cold start
Stand-by power consumption	230Vac: 2W
Surge voltage	L-N: 2KV
Output voltage accuracy	±1%
Output voltage adjustment range (note 2)	12V model 11.6-12.3V 24V model 23.5-24.5V 48V model 47.5-48.3V
Minimum load	0A
Line regulation	1%

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■ Technical Data(cont.)

Load Regulation	1%
Turn-on delay time	560ms
Hold up time	20ms
Short circuit protection	Hiccup mode, it will recover automatically after fault condition is removed
Over voltage protection	12V: over voltage protection value 20V 24V: over voltage protection value 33V 48V: over voltage protection value 66V When output voltage exceeds above over voltage protection value or reversal voltage occurs, the protection will be started and the output voltage will be cut off in order to protect the power supply; The power supply will recover after the power is turned on again
Over current protection	12V: over current protection value 6A 24V: over current protection value 3A 48V: over current protection value 1.5A When output current exceeds above over current protection value, the protection will be started and the output voltage will be cut off in order to protect the power supply; the power supply will recover automatically after the fault condition is removed
Over temperature protection	100±10°C When the ambient temperature exceeds above over temperature protection value, the protection will be started and the output voltage will be cut off in order to protect the power supply; The power supply will recover automatically after the fault condition is removed.
Operating temperature	-25-+70°C
Operating relative humidity	20-95% non-condensing
Storage temperature	Humidity 5-95% RH -40-+85°C
MTBF	200,000 hours full load, 220Vac input, 25°C ambient temperature
DC-OK led	LED (Green) DC OK LED light will be on when the power supply is properly operated
DC-Low led	LED(Red) DC Low LED light will be on when output voltage is below 85%(±2.5%) from the rated output voltage; when over voltage, over current , over temperature and short circuit fault
Cooling	Free air convection
Mounting method	Vertical
Dimension(WxHxD)	30x130x125mm (1.18x5.12x4.92in)
Weight	570g
Packing	18pcs/12kg/0.7cuft/carton; Carton size 620x260x175mm(LxWxH)

Note:

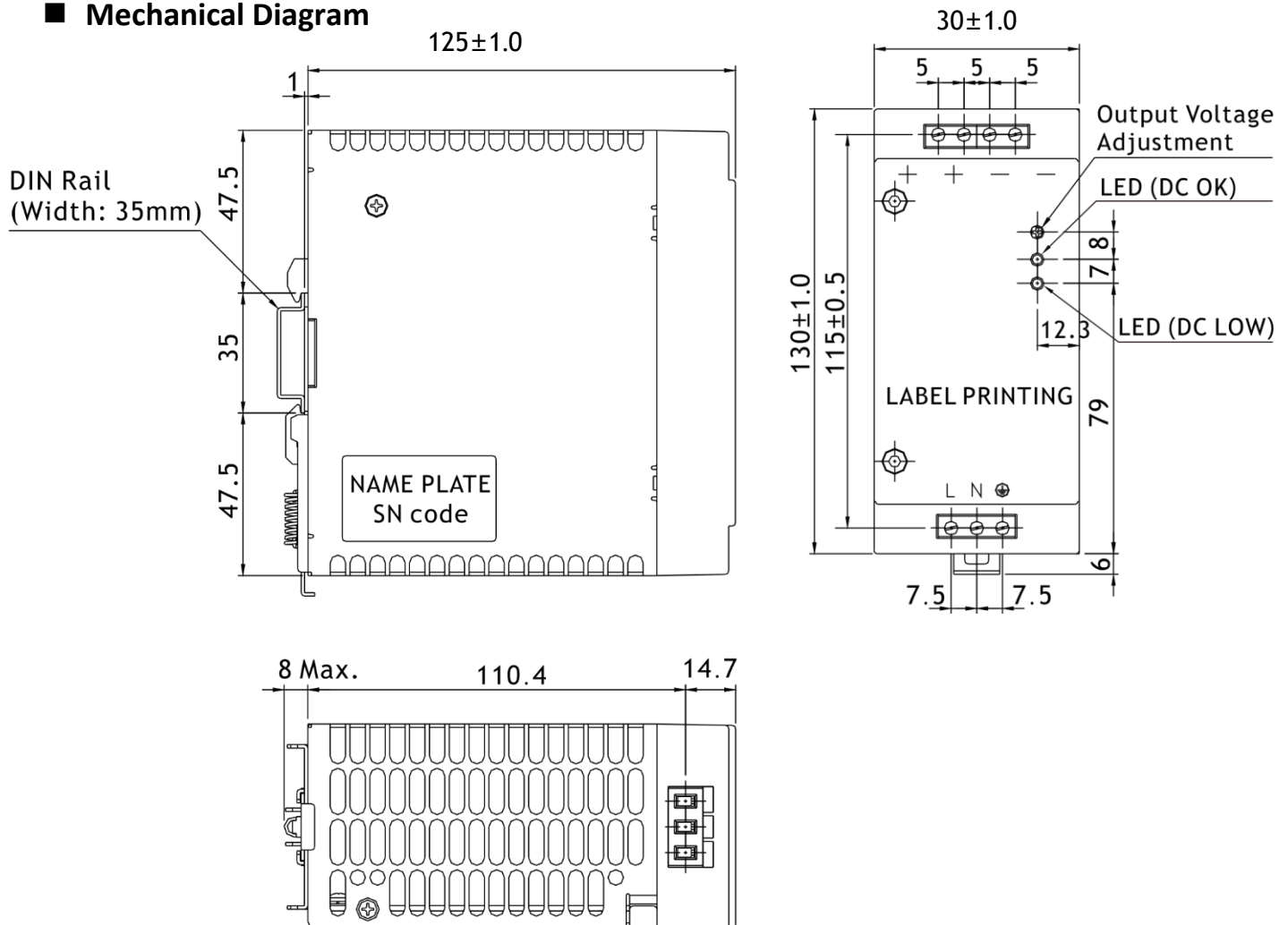
1. This product has built-in inrush limiting circuit to protect the circuit from surge current damages when the power is turned on. Malfunction can occur by repeating the input voltage on and off rapidly. Therefore, sufficient interval should be given between cycling the power on and off; To avoid connecting the switch or fuse to input terminal (outside of the power supply), more the consideration should be given when selecting the parts that can endure the inrush current.
2. Output Voltage can be adjusted within above range by V-ADJ. variable resistance inside of the power supply. When output voltage exceeds the range, the power supply will be in failure or get into over voltage protection mode. To avoid the case that the output voltage is higher than rated voltage, output current should be used under rated current.

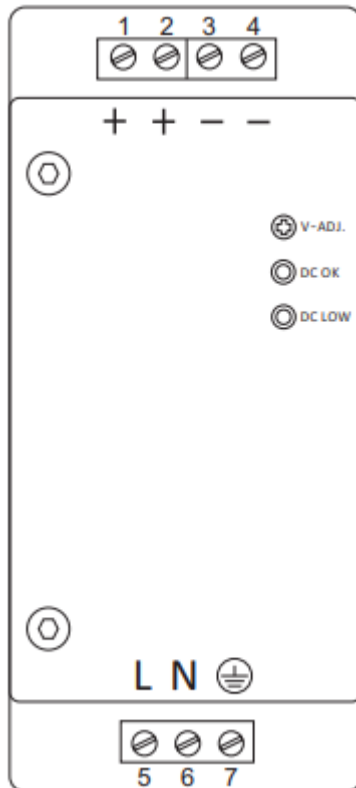
■ Safety and EMC Approval

Isolation Voltage	I/P-O/P: 3KVac, I/P-FG: 1.5KVac, O/P-FG: 1.5KVac
Insulation resistance	100mΩ Max./500Vdc
Safety	Design refer to UL60950-1, EN60950-1
EMC	EN55022:2010+AC:2011 (CISPR22:2088) Class B EN61000-3-2:2014 (IEC 61000-3-2:2014) EN 6100-3-3:2013 (IEC 61000-3-3:2013) EN55024:2010 (CISPR 24:2010)

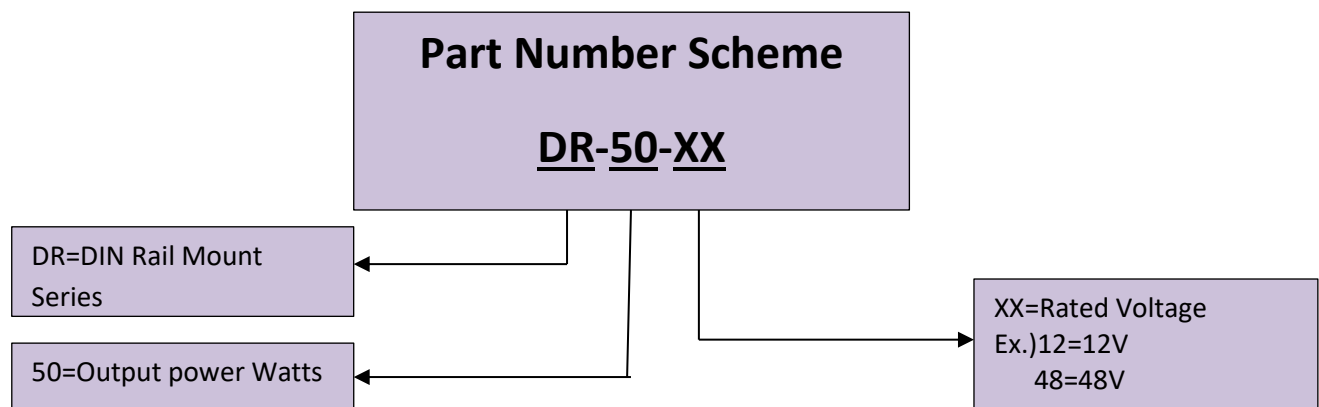
Note: Unless otherwise specified, all the above parameters are measured at ambient temperature of 25°C and Vin=100Vac to 240Vac

■ Mechanical Diagram





Label	No.	Assignment
+	1	DC(+) Output Terminal
+	2	
--	3	DC(-) Output Terminal
--	4	
L	5	AC(L) Input Terminal
N	6	AC(N) Input Terminal
⏏	7	AC Grounding Terminal
V-ADJ.	/	DC Output voltage adjustment trimmer
DC OK	/	DC Output OK indication LED (Green)
DC Low	/	DC Output Low indication LED (Red)



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***Specifications are subject to change without notice. Autech is not responsible for issues arising from errors or omissions.**

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