



## AC → DC SWITCHING POWER MODULE

## NL1240D SERIES

All the patents are held accountable counterfeiting.

### Features



### Green Power

- Standard/Din Rail Mounting Dual Purpose
- Comply with High Efficiency Power 80Plus Criterion
- Convection cooled high reliability
- 100% burn-in test
- 2 years warranty
- Output modify range: 3V~200VDC

DIMENSIONS: 100(H)\*83(D)\*49(W)mm

WEIGHTS: 455g

### General specifications

#### INPUT

Input range	180~264VAC 200~380VDC
Input frequency	47~63Hz
Inrush current (25°C)	40A/220VAC

#### OUTPUT

Hold-up time	13ms
Short protection	Autorecovery
Over load protection	Automatic power limited

### Detail specifications

#### 240 Watts

MODEL	O/P Volt Adj. ± %	Load(Current)			Ripple & Noise <sup>4</sup>	Line REG. <sup>2</sup>	Load REG. <sup>3</sup>	Efficiency <sup>5</sup>	O.V.P
		Min.	Rated	Max. <sup>1</sup>					
NL1240D-12	V : +12V <sup>+10%</sup> -8%	0A	16.6A	20A (Peak 30s)	150mV	±1%	±1%	88% Ref.	17.1 ~ 18.9V
NL1240D-24	V : +24V ±10%	0A	10A	10A	240mV	±1%	±1%	90% Ref.	31.4 ~ 34.7V
NL1240D-48	V : +48V ±10%	0A	5A	5A	480mV	±1%	±1%	90% Ref.	64.6 ~ 71.4V
NL2240D1	V1 : +12V <sup>+10%</sup> -8% V2 : +5V	0A 0A	15.4A 3A	16.6A(Peak 30s) 3A	150mV 40mV	±1% ±1%	±1% ±1%	88% Ref.	17.1 ~ 18.9V 5.8 ~ 7.0V
NL2240D2	V1 : +24V ±10% V2 : +5V	0A 0A	9.3A 3A	10A(Peak 30s) 3A	240mV 40mV	±1% ±1%	±1% ±1%	90% Ref.	31.4 ~ 34.7V 5.8 ~ 7.0V
NL2240D3	V1 : +24V ±10% V2 : +12V	0A 0A	8.5A 3A	9A(Peak 30s) 3A	240mV 80mV	±1% ±1%	±1% ±1%	90% Ref.	31.4 ~ 34.7V 17.1 ~ 18.9V

Please Choose Fit Function, And Fill In The Blank With Suitable Words.

Order Model: NL1240D-24

Optional Function:

Terminal Block: " " : PCB Barrier Terminal Block  
"E" : Mini Terminal Block

### CE Standards

EN 55032, EN 55035,  
EN 61000-3-3, (EN 61000-4-2,  
EN 61000-4-3, EN 61000-4-4,  
EN 61000-4-5, EN 61000-4-6,  
EN 61000-4-8, EN 61000-4-11)  
LVD: EN 62368-1

### Safety Standards



UL 508 Meet



CE Marking

### Environments

Operating Temperature	-15 ~ 50°C, Ambient
Operating Humidity	20 ~ 90% RH, No Condensing
Storage Temperature	-20 ~ 85°C, Ambient
Vibration	2G, 10~500Hz, 3 axes

WEB : <http://www.gpsmps.com/>  
Tel : 0086-755-29769042

E-mail : [sale@gpsmps.com](mailto:sale@gpsmps.com)  
+86 13410894308



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**NOTE**

1. Each output can provide up to maximum load, but total load can not exceed rated output power.
2. Line regulation is measured from low line to high line at rated load.
3. Load regulation is measured from 20% to 100% of rated load at 220VAC input.
4. Ripple & Noise are measured with 20MHz oscilloscope at 220VAC by using a 20cm long 12" twisted pair-wire with a 0.1uF/630V metal capacitor & a 47uF electrolytic capacitor parallel on the test point.
5. Efficiency is measured at rated load and 220VAC input.
6. Hold-up time is measured at rated load and 220VAC input.
7. Output Voltage Adjustable is measured on 5% of rated load.
8. The product uses metal enclosure for cooling. To ensure product lifespan, a clearance of at least 1 cm at the side of the product, 2 cm at top and bottom of the product should be maintained when installing.
9. Reign Power reserve the right to change specifications at any time without notice.

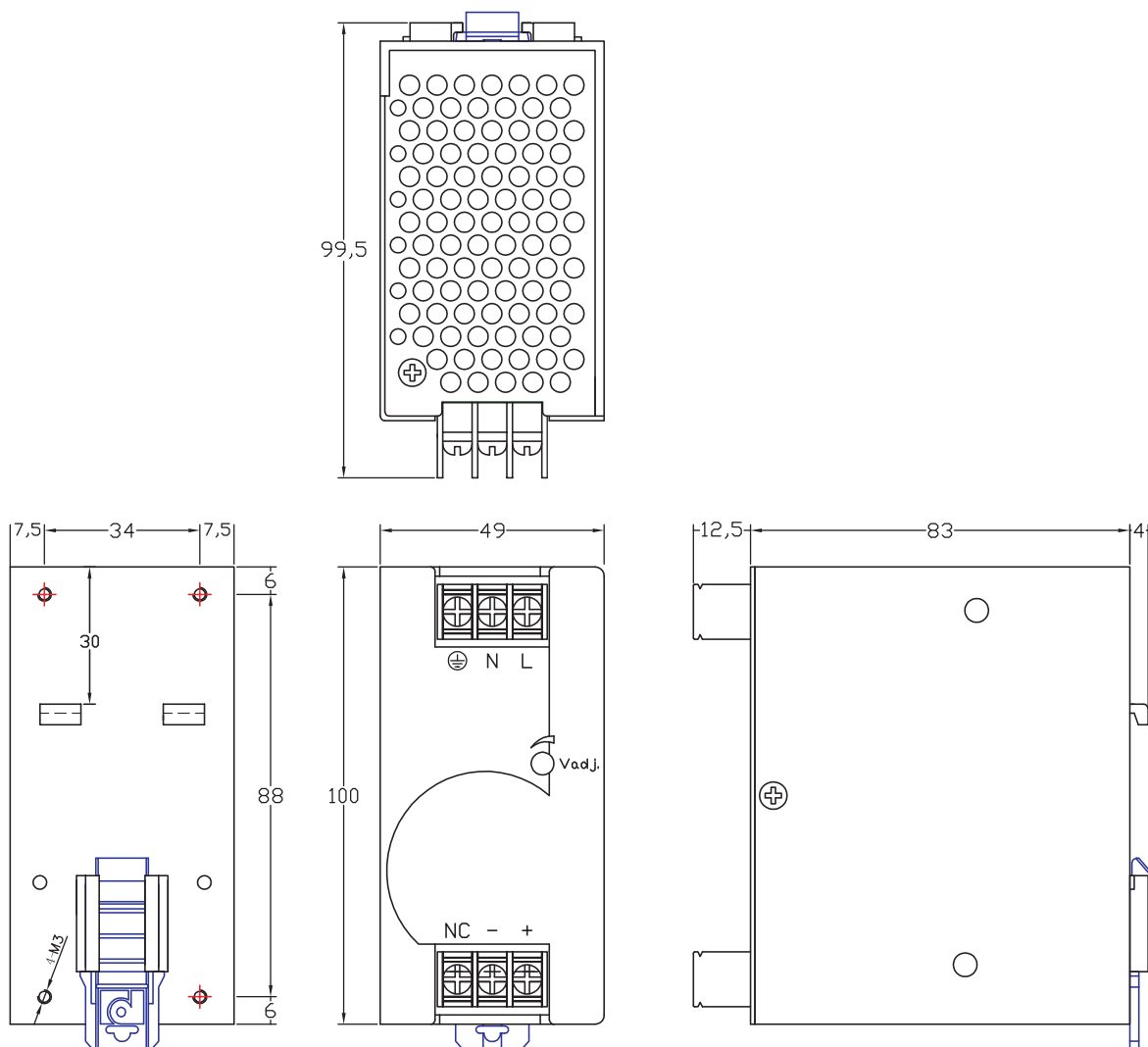


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## Mechanical Details



## Panel Designation

**CASE NO. : CS035DR**

**UNIT : mm**

**DIMENSION : 100(H)\*83(D)\*49(W)**

**MATERIAL : ALUMINUM**

**COLOR : ORIGINAL ALUMINUM**

Symbol	Description
L	Line Terminal Of AC Input (No Polarity At DC Input)
N	Neutral Terminal Of AC Input (No Polarity At DC Input)
⊕	Grounding (Earth)
+	DC Positive Output Terminal
-	DC Negative Output Terminal
NC	No Output Terminal
DC Voltage Monitor	Display Output Voltage
V adj.	Potentiometer For Output Voltage