

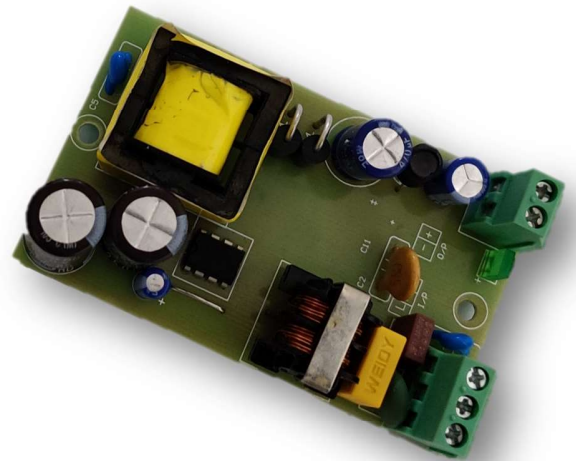
## AC/DC 24W OPEN TYPE SMPS

NHP-OS-24-X

### SALIENT FEATURES:

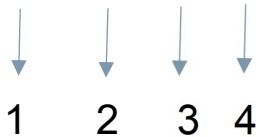
The OS-series is one of NHP's compact size power converter. It features universal AC input and at the same time accepts DC input voltage. It functions from a wide AC input range and at the same time accepts DC input voltage. Its main features are low no-load power consumption, high efficiency and high reliability. These power supply offer excellent EMC performance and meet international standards and are widely used in areas of industrial automation, street light control, electricity, security, telecommunications, smart home, etc.

- 90 - 300V Universal AC or wide 130 - 400V DC Input
- Operating ambient temperature range: -40°C to +85°C
- High I/O isolation test voltage up to 3000VAC
- Regulated output, low ripple & noise
- Output short circuit, over-current protection
- High efficiency, high reliability



### ORDERING CODE:

NHP-OS-24-12



1	Company Name
2	OS- Open Type SMPS
3	Rated Output Power
4	Output Voltage

## SELECTION GUIDE:

Model Number	Output Power (Watt)	Output Voltage and Output Current (V/I)	Efficiency
NHP-OS-24-5-X	15W	5V/3A	>85%
NHP-OS-24-12-X	24W	12V/2A	
NHP-OS-24-15-X	15W	15V/1A	
NHP-OS-24-24-X	24W	24V/1A	

## INPUT SPECIFICATIONS:

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Input Voltage	AC Input	90	-	300	VAC
	DC Input	130	-	400	VDC
Input Voltage Frequency		40	-	70	Hz
Input Current	115VAC	-	-	0.4	A
	230VAC	-	-	0.25	
Inrush Current	115VAC	-	18	-	
	230VAC	-	35	-	
Leakage current	240VAC	<2 mA			
Recommended External Fuse		1A/250V Slow-blow			



## OUTPUT SPECIFICATIONS:

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Output Voltage Accuracy		-	±1	-	%
Line Regulation	Full Load	-	±1	-	
Load Regulation	0%-100% Load	-	±1	-	
Ripple and Noise	20MHz bandwidth (peak-to-peak value)	-	150	-	mV
Stand-by Power Consumption	230 VAC	-	0.1	0.3	W
Temperature Coefficient		-	±0.02	-	%/°C
Short Circuit Protection		Hiccup, continuous, self-recover			
Over Current Protection		≥110%Io, self-recovery			
Min. Load		0			
Hold-up Time		-	20	-	mS

## GENERAL SPECIFICATIONS:

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Isolation Test	Input-Output Electric Strength Test for 1min	3000	-	-	VAC
Operating Temperature		-30	-	+60	°C
Storage Temperature		-30	-	+60	
Storage Humidity		-	-	95	%RH
Vibration		10-500 Hz 2G 10 min/cycle 60 mins each along XYZ axis			
Indication		Mains On			

## MECHANICAL SPECIFICATIONS:

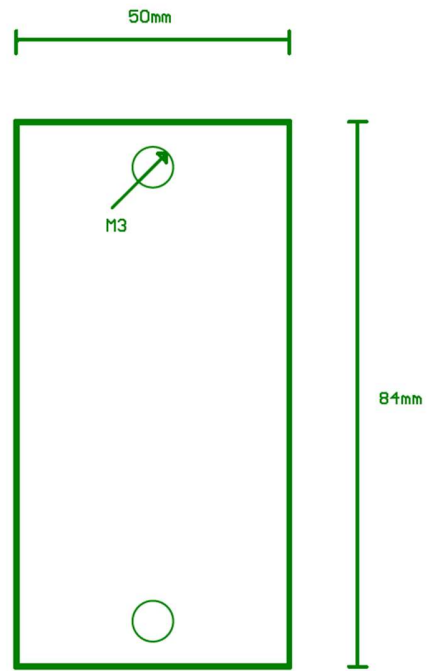
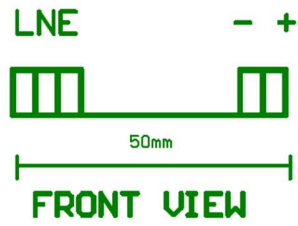
Dimensions: L*B*H	84*50*30mm (L*B*H)
Weight	250g
Cooling Method	Naturally Air Cooled



**MECHANICAL DRAWING:**

**NOTE:**

All measurements are in mm.



**BOTTOM VIEW**

