

## PS Series Power Supplies

### Introduction

The PS series non-regulated, switch-mode power supplies are specifically designed to power inductive loads found in stepper & servo motors. The normal regulated switched power supplies popular in the market are not suitable for use with stepper or servo drives, because they are designed for fixed maximum loads. When stepper or servo systems are running, the driving currents varies extremely fast, which are inherent to inductive loads, and cause the power supply to shut down if the maximum load is exceeded.

### Features

- Specifically designed to power stepper / servo drives
- Three models available: PS407, PS487 and PS705
- Efficient switch mode design
- Compact size, lightweight
- Output power up to 300W<sup>1</sup>
- Short circuit, over-voltage protection
- Input voltage 220VAC (110VAC available as an option<sup>2</sup>)



### Electronical Specification (T<sub>j</sub> = 25°C/77°F)

Model No.	Output Voltage	Continuous Current	Peak Current	Input Supply Voltage	Size (mm)	Weight (gram)
PS407	42V	7A	9A	220VAC±10%	132x104x60	640
PS487	48V	7A	9A			
PS705	68V	5A	7A			

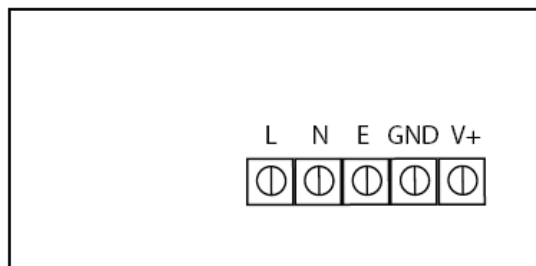
### Operating Environment and Other Specifications

Cooling	Natural Cooling or Forced cooling	
Operating Environment	Environment	Avoid dust, water, oil frost and corrosive gas
	Ambient Temperature	0°C ~ 50°C
	Humidity	40%RH—90%RH
	Vibration	5.9m/s <sup>2</sup> Max
Storage Temperature	-40°C ~ 70°C	

<sup>1</sup> For safety and system reliability, the output power should not go over 300W.

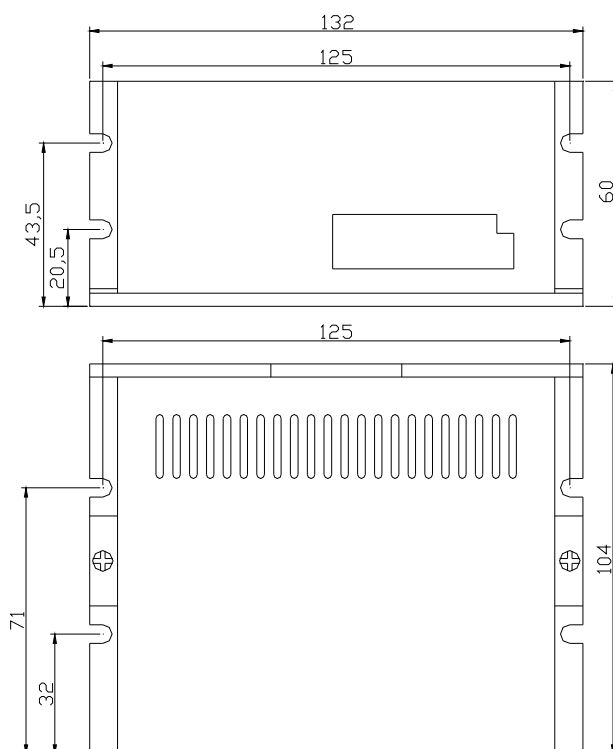
<sup>2</sup> 110VAC power supply is a non-stock item. For its availability, please contact us on +44 (0)1202 599922.

## Pin Function



L	VAC input
N	
E	Ground
GND	DC output (negative)
V+	DC output (positive)

## Mechanical Specifications (in mm, 1 inch = 25.4 mm)



## Attention

### Over-voltage Protection:

PS407/487/705: when the input voltage is higher than 264V, fault LED light and output will be turned OFF.