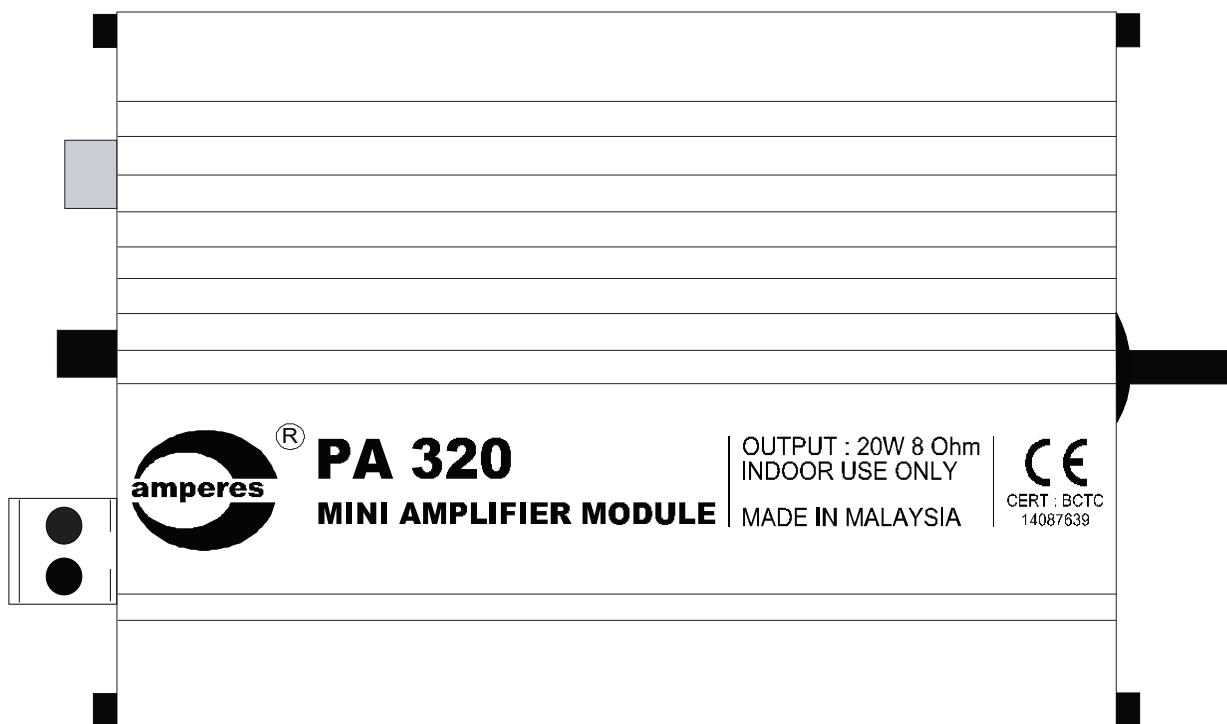




# INSTRUCTION MANUAL

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## PA320 20W Mini Amplifier



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*Thank you for choosing another quality product from Amperes Electronics.*

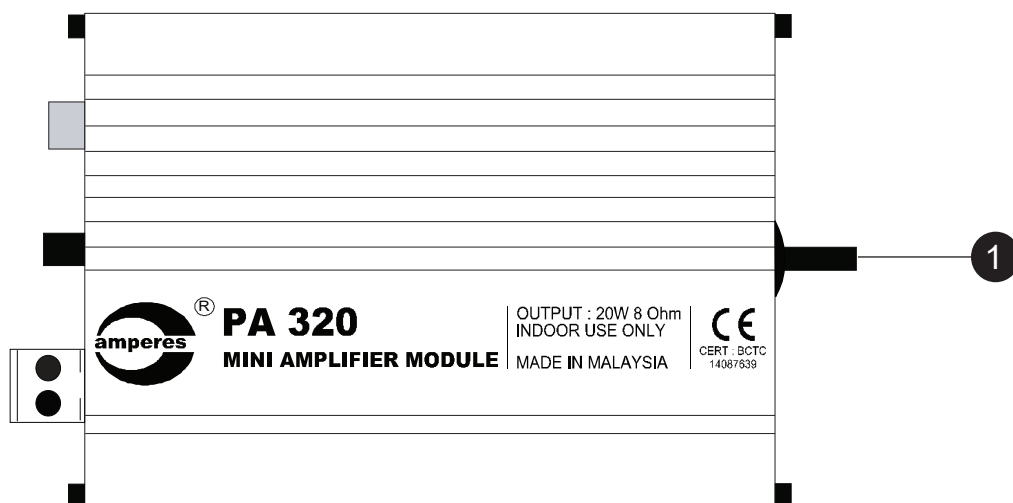
Amperes PA320 is a mini amplifier used to amplify BGM signal to a speaker of 4 or 8 Ohm, such as from TV output to a bathroom speaker in a hotel room. Amperes VC7805 volume controller and VP7810 BGM-Speaker patch panel can be installed if required to allow emergency paging to be announced at the speaker.

Other applications include simple mic calling system at counters or as an amplifier module to some other system which need to broadcast audio output to a speaker, ie. queue management system or telephone intercom.

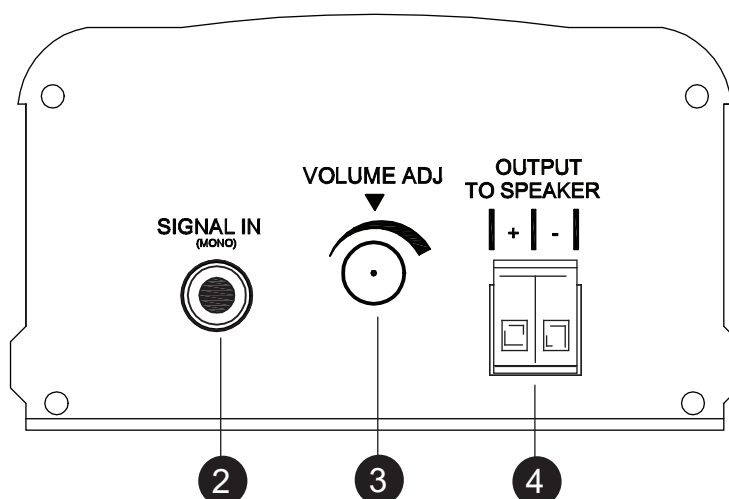


# Parts Identification

Front View



Rear View



## 1. AC INPUT

Mains AC power cord (AC Main: 220 - 240V AC 50/60Hz).

## 2. AUDIO INPUT SIGNAL ( UNBALANCED)

Source from CD or MP3 Player line output using mono mode, either L or R.

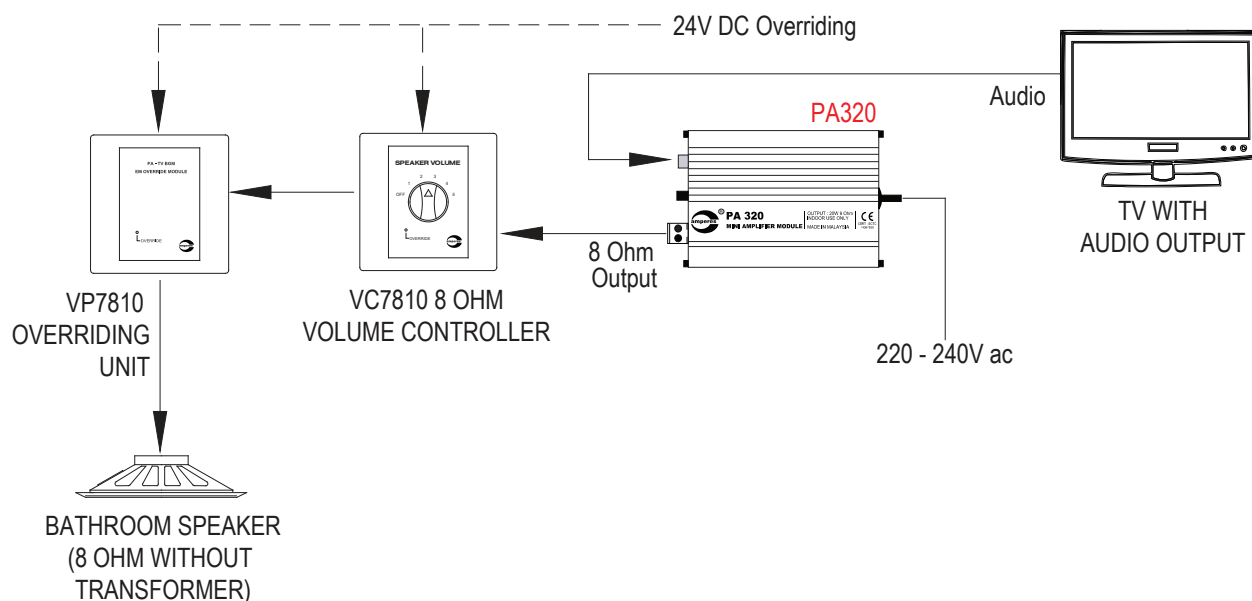
## 3. VOLUME ADJUSTMENT

Volume adjustment knob for control the volume from min to max.

## 4. OUTPUT TO SPEAKER

Outgoing are available to 8 Ohm speaker.

## Schematic Diagram



## Summary Of Features

- Available in 20W 4 Ohm rating
- Adjustable volume control for volume preset
- Compact size for easy installations

## Technical Data

Rating	20W 4 Ohm
Operating voltage	220 - 240V ac
Current consumption	0.14A
Input signal	Mono ; unbalanced line
Input sensitivity	40 mV
Max input	1.2V
Input impedance	100 K Ohm
Frequency response	100 ~ 18 KHz
Controls	Input volume preset
Dimensions (WxHxD)	130 x 55 x 95 mm
Weight	790 g

### Note:

The above specifications are correct at time of printing but subjected to changes without prior notice due to product improvements.

# Warranty Conditions

Only Amperes Electronics Service Centres are allowed to make warranty repairs : a list of Amperes Electronics Service Centres may be asked for by the purchaser or send directly to Amperes Electronics Sdn Bhd at 70 Jalan Industri PBP 3, Tmn Perindustrian Pusat Bandar Puchong, 47100, Puchong, Selangor, Malaysia or its authorized dealers. This warranty is not valid if repairs are performed by unauthorized personnel or service centres.

This warranty covers only repairs and replacement of defective parts ; cost and risks of transportation as well as removal and installation of the product from the main system are for the account of the purchaser. This warranty shall not extend to the replacement of the unit.

This warranty does not cover damages caused by misuse, neglect, accident of the product as well as using the product with power supply voltage other than shown on the product, or any other power supply source / adaptor not recommended by the manufacturer.

This warranty does not cover damages caused by fire, earthquakes, floods, lightning and every cause not directly related to the unit.

This warranty does not include any indemnity in favor of the purchaser or the dealer for the period out of use of the unit; moreover the warranty does not cover any damages which may be caused to people and things when using the product.

This warranty certificate is valid only for the described product, and is not valid if modifications are made on this certificate or on the identification label applied on the product.

This warranty covers all the material and manufacturing defects and is valid for a period of 36 months from the date of purchase or for a specified period in countries where this is stated by a national law. In this case, the extension is valid only in the country where the product is purchased.

Amperes Electronics Sdn Bhd is not obliged to modify previously manufactured products under warranty if the design changes or improvements are made.

# Disclaimer

Information contained in this manual is subject to change without prior notice and does not represent a commitment on the part of the vendor. AMPERES ELECTRONICS SDN BHD shall not be liable for any loss or damages whatsoever arising from the use of information or any error contained in this manual.

It is recommended that all services and repairs on this product be carried out by AMPERES ELECTRONICS SDN BHD or its authorized service agents.

AMPERES series must only be used for the purpose they were intended by the manufacturer and in conjunction with this operating manual.

AMPERES ELECTRONICS SDN BHD cannot accept any liability whatsoever for any loss or damages caused by service, maintenance or repair by unauthorized personnel, or by use other than that intended by the manufacturer.



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