



**Power/ Signal protection**  
**USB/ Bluetooth/ Aux inputs**

The New JB Series is an economical and rugged power amplifier designed to meet the needs of system integrators.

The JB120 and JB60 are two plug-and-play cost effective power amplifiers that deliver 120 and 60 Watts to constant voltage or 8 ohm loads. Built with premium quality and protections, they offer basic functionality at a budget price. The amplifiers offer 70 V, 100 V for constant voltage loud speaker systems and a low impedance output for 4 to 16 ohms loudspeaker load. They can be combined with the JB300 5 zone power amplifiers where more power on an existing 100 V line is needed. The system has a balanced input and loop through facility making it easy to connect multiple amplifiers.

**2 microphone inputs/ 1 RCA line input**

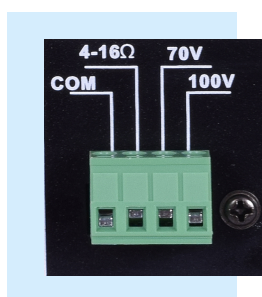
**70/100 volt or 4 to 16 ohm outputs**

**Line and Record Level Outputs**

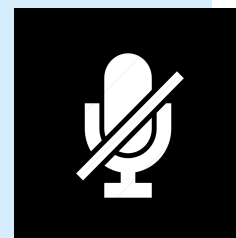
**Mic input 1 with priority muting**

**Integrated Bass and Treble tone controls**

**Desktop compact design**



70V/100V/4 -16 ohms



Priority muting

#### Protection

The amplifier is protected against overload and short circuits. A limiter protects the amplifier and loudspeaker against accidental overdriving.

#### High Power, Low Distortion

60W (JB60) or 120W (JB120) Of RMS Power at less than 1% THD

#### LED Indicators:

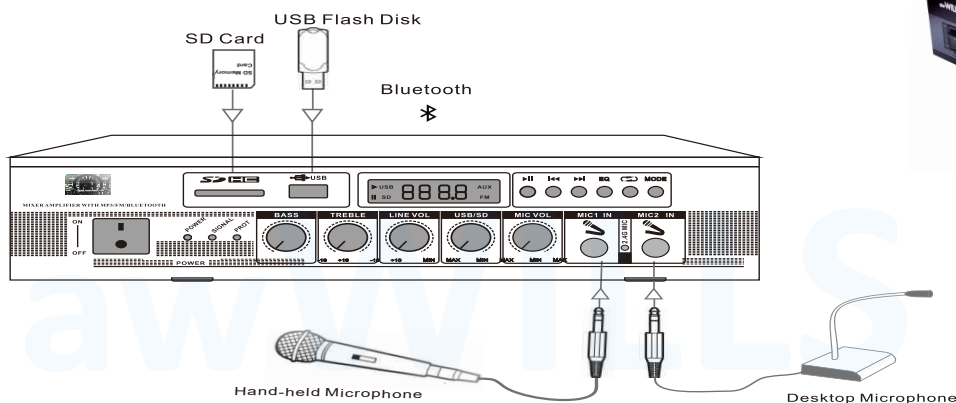
\*Power ON \*Signal \* Protection

JB120 and JB60 are based upon the reliable performance of the Class D amplifiers. Designed for wide range of applications in facilities such as retail outlets, villas, performance halls, places of worship, sports clubs, gymnasiums, class rooms, conference rooms, dance venues, pubs, and FGM/BGM systems. The JB Series provides unmatched performance, the right power for the job at an affordable price.

#### Specifications

| MODEL                   | JB60  | JB120 |
|-------------------------|---|-------|
| RATED POWER             | 60W   | 120W  |
| OUTPUT MODE             | 4 to 16Ω; 70/100V                             |       |
| FREQUENCY RESPONSE      | 60Hz to 15KHz (+/-3dB)                        |       |
| THD                     | < 0.5% at 1KHz, 1/3 rated power               |       |
| SIGNAL TO NOISE RATIO   | Line: 85dB; Mic: > 72dB                       |       |
| PROTECTION              | Temperature, Over voltage, Short              |       |
| MUTE FUNCTION           | Mic 1 overrides Mic2, AUX inputs              |       |
| TONE CONTROL            | Bass: 100Hz (± 10dB); Treble: 12KHz (± 10dB)  |       |
| INPUT/OUTPUT CONNECTORS | 1/4 inch connector Mic input, RCA Line in/out |       |
| INPUT SENSITIVITY       | 600Ω, 5mV-10mV unbalanced                     |       |
| LINE INPUT              | 10KΩ, 150mV-470mV unbalanced                  |       |
| LINE OUTPUT             | 0.775V  |       |
| POWER SUPPLY            | AC 220V +/-10%, 50-60Hz                       |       |
| POWER CONSUMPTION       | 84W   | 168W  |
| DIMENSIONS (W x D x H)  | 305mm x 275mm x 72mm                          |       |
| COOLING SYSTEM          | Natural Convection                            |       |
| NET WEIGHT              | 5Kg   | 5.5Kg |

## ● Front



## Connection illustration

### ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The panel shall be Aluminium alloy and the case black steel plate. Dimensions shall be 305 (W) × 72 (H) × 275 (D) mm, and weight 5.5 kg.

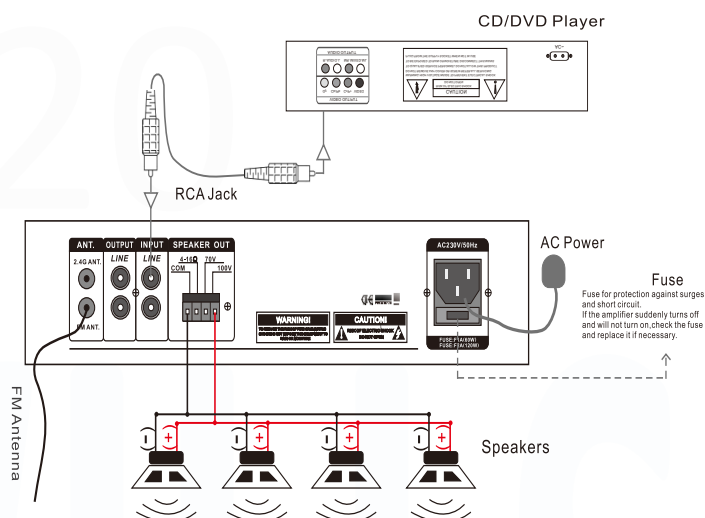
The mixer power amplifier shall operate on 220VAC 50 to 60Hz mains power. Speaker outputs shall be high-impedance and low-impedance, and there shall be a low-impedance REC out. The amplifier shall control and mix 2 unbalanced (phone jack) MIC, 1 unbalanced (RCA pin jack) AUX input and Mp3 (USB)/Bluetooth inputs.

The amplifier shall meet the following performance criteria: Power output shall be 120 Watt, less than 1% THD (at 1kHz, 1/3 rated power). Frequency response shall be 60 Hz to 15 kHz ( $\pm 3$  dB), with an S/N ratio of over 80 dB. Muting of other input signals shall be available for MIC 1.

Bass Tone Control shall be  $\pm 10$  dB at 100 Hz, and Treble Tone Control shall be  $\pm 10$  dB at 12 kHz. Power, signal level and short protection indicators shall be provided. Separate volume controls for Mic, USB, Line inputs shall be provided. Separate Bass and Treble controls shall be provided.

The JB60/120 amplifier topology shall be Class D. Power consumption of JB60 shall be 84Watts and JB120 shall be 168Watts.

## ● Rear



The JB60/ JB120 PA Installation Amplifiers are designed as desktop, compact, ergonomic model, and overall 4/8 ohms( $\Omega$ ) loads and features 100 volt and 70 volt load solution.



As part of awWILLS's ongoing commitment to product development, specifications are subject to change without notice.