# JB250/JB350/JB550 JB All-in-One Unit

# **MIXER POWER AMPLIFIERS**



### www.aw-wills.com



### Ideal for small and medium PA application with the 6-zone and all call speaker selector

+ Six-zone paging system

- + Built-in AM/FM tuner with presets
- + MP3 player for USB device and SD card
- + All-in-One solution for background music and paging

**awWILLS** JB240, JB350 and JB550 are high performance mixer power amplifiers with a 6-zone speaker selector that is suitable for public address broadcasting or background music usage. An **all zone** button allows broadcasting to be made to all 6 zones.

### **Features**

- 6 Zones Mixer amplifier with audio source inputs for paging & background music system.

- Built-in Bluetooth receiver and USB player.
- Alarm(Chime, Bell, EVAC) with highest priority
- Siren Control DC12/24V terminal for extra EVAC device.
- 70V-100V and low impedance 4-16ohms speaker outputs.
- 3 Mic inputs with Echo, 2 AUX inputs and 1 Line output
- Mic1 VOX with priority to override other sources input and with mute level control.
- Volume control: Mic 1-3, AUX 1-2, Master, Bass and Treble tone control.
- Short circuit, overload and high temperature protection.

### **Specifications**

Model	JB 250	JB 350	JB 550
Description	6 Zone PA Mixer Amplifier with Mp3 USB/SD		
Rated Power Output	250W	350W	550W
Built-in Sources	Bluetooth, Mp3 player by USB/SD on front panel, with IR remote control		
AUX/MIC	AUX: 500mV/10KΩ, MIC:3-6mV, PRE-Out: 0.775V(0dB)		
THD	<0.5% at 1kHz		
Tone Adjustment Range	BASS: 100Hz (±10dB), TREBLE: 10kHz (±10dB)		
Frequency Response	80Hz~20KHz		
S/N Ratio	75 dB		
Cooling Method	Automatic FAN strong air cooling method		
Protection	AC FUSE 4A	AC FUSE 6.3A	AC FUSE 12A
	short-circuit, overload and high temp protection		
Power Supply	AC 110-240V/50-60Hz		
Power Consumption	365W	495W	800W
Power Cord	(3 x 0.75mm <sup>2</sup> ) x 1.5M (standard)		
Finishing	Metal panel, 2U, silk-printed black		
Net Weight	17.2kg	19.2kg	24kg
Product Dimension	485(W)×340(D)×88(H)mm		
Speaker Output	100V - 70V & 4-16 Ohms		

## JB250/ JB350/ JB550

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4-16Ω or 70V/100V

5 AUX input

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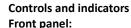
AC Power input

4 Signal output

Priority control

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### 6 ZONE AMPLIFIER 250/ 350/ 550 WATTS



- Power on LED
- Alarm inputs-Chime/ Alert/ Evac switches
- Master volume control
- Separate volume-level controls for inputs
- Separate bass and treble controls
- Music source controls

### **Rear side panel**

- AC mains power input
- Pre-out
- 3 MIC and 2 AUX inputs
- Ducking level control
- Siren Control relay DC12/24V

# for small to medium sized venues.

Relay 12/24V input, activating alarm output

Cost effective public address system

### ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

### JB250/ JB350/ JB550

The panel shall be Aluminium alloy and the case black steel plate. Dimensions shall be 483 (W)  $\times$  88 (H)  $\times$  320 (D) mm, and weight 12.0 kg, 13.5 kg and 17.5 kg respectively.

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 shall control and mix 3 unbalanced (phone jack) MIC inputs, 2 unbalanced (RCA pin jack) AUX inputs and Mp3 (USB)/Blue -tooth inputs. Bluetooth effective distance shall be 6 to 10 meters. The All-in-One Unit has no moving parts, such as hard drives that can fail or wear out.

Chime, Bell and EVAC alarm outputs shall be provided for emergency alarm and evacuation. DC12/24V relay control for Siren activation shall be provided on the rear panel.

The amplifier shall meet the following performance criteria: Power output shall be 250 Watts/ 350 Watts and 550 Watts, less than 0.5% THD (at 1kHz, 1/3 rated power). Frequency response shall be 60 Hz to 15 kHz ( $\pm$ 3 dB), with 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 inputs, USB, Line inputs shall be provided. Separate Bass and Treble controls shall be provided.

The JB All-in-one unit amplifier topolaogy shall be Class AB. Power consumption of JB250 shall be 550Watts, JB350 shall be 850Watts and JB550 shall be 1350Watts.

### **Microphone and Line inputs**

Connector for radio antenna

6 zones output, 100V

6 3 MIC signal input

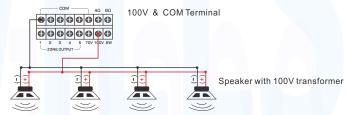
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Multiple audio source options have been engineered into these amplifiers including MP3 player connecting external USB drive, wireless Buletooth receiver, three microphone interfaces and two AUX RCA ports. 250/350/550 watts amplifier power are provided with an audio output to 6 different zones within the venue. Each zone has its own control which can be manually operated on the front panel.

The unit has three music inputs and an internal music source. The internal music source plays MP3 files from an SD/MMC card or USB device. If a microphone signal receives priority, the music is either muted or attenuated to an adjustable level (music ducking).

\*Caution: low impedance and high impedance speakers cannot be used at the same time

#### **Connection illustration**



The JB250/JB350/JB550 PA Installation Amplifiers are designed with a 2U height housing including removable rack mounting brackets, and overall 4/8 ohms( $\Omega$ ) loads and 6 zoned 100 volt and 70 volt load solution.



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