

## Overview

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680-watt, portable PA system with 10-channel powered mixer, two 10" speakers, a Bluetooth® input, SPX digital reverbs, an onboard feedback suppressor and versatile EQ.



## Features

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- 680W (340W + 340W) power output
- High quality speakers (LF:10" woofer/ HF:1.4" voice coil compression driver)
- Detachable 10-channel mixer (4 mono/line + 6 mono / 3 stereo line)
- Bluetooth® audio streaming
- 1-Knob Master EQ™ with virtual bass boost
- High resolution SPX digital reverbs (4 types, parameter control)
- Onboard feedback suppressor
- Great-sounding 3-band channel EQ
- Switchable stereo/ mono inputs
- Hi-Z (high impedance) inputs
- Phantom power
- Monitor and Subwoofer outputs
- Optional reverb footswitch

## Specifications

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### General Specifications

#### System

|                                          |                                                                                                          |
|------------------------------------------|----------------------------------------------------------------------------------------------------------|
| System Type                              | Powered mixer with 2 passive speakers                                                                    |
| Frequency Range (-10dB)                  | 55Hz-20kHz                                                                                               |
| Maximum SPL (Measured Peak IEC Noise@1m) | 129dB SPL / speaker                                                                                      |
| Power Consumption                        | 35W (Idle), 100W (1/8 Power)                                                                             |
| Power Requirements                       | 100V-240V 50Hz/60Hz                                                                                      |
| Dimensions (W x H x D)                   | Speaker 335mm x 545mm x 319mm (13.2" x 21.5" x 12.6"), Mixer 348mm x 197mm x 135mm (13.7" x 7.8" x 5.3") |
| Net weight                               | 25.6 kg (56.4 lbs) (2 x Speaker 10.9 kg + Mixer 3.8 kg)                                                  |

#### Powered Mixer

|                     |                           |                                                                                  |
|---------------------|---------------------------|----------------------------------------------------------------------------------|
| Mixer               | Mixing Channels           | 10                                                                               |
|                     | Analog Inputs             | 4 mono mic/line + 6 mono / 3 stereo line                                         |
|                     | Bluetooth Input           | Bluetooth Ver.4.1, A2DP v1.2, Maximum Range: Approx. 10 m                        |
|                     | Channel EQ                | 3-band (HIGH Shelving: 8kHz, MID peaking: 2.5kHz, LOW Shelving: 100Hz)           |
|                     | Channel Functions         | Hi-Z switch: CH4, ST/MONO switch: CH5/6-9/10                                     |
|                     | Digital Effects           | SPX digital reverb (4 program, parameter control)                                |
|                     | Output Processing         | Feedback suppressor, 1-Knob Master EQ™                                           |
|                     | Phantom Power             | +30V (CH1, 2)                                                                    |
|                     | Outputs                   | SPEAKERS OUT (L, R), MONITOR OUT (L/MONO, R), SUBWOOFER OUT (MONO) with auto HPF |
|                     | Control and Others        | Reverb foot switch                                                               |
| Built in Amplifiers | Power Rating (Dynamic)    | 680W (340W + 340W)                                                               |
|                     | Power Rating (Continuous) | 560W (280W + 280W)                                                               |

#### Speaker

|                     |                                                                      |
|---------------------|----------------------------------------------------------------------|
| Type                | Two-way bass-reflex speakers                                         |
| Components          | LF: 10" (25cm) cone, HF: 1.4" (3.56cm) voice coil compression driver |
| Coverage Angle      | 90° x 60°                                                            |
| Floor Monitor Angle | 50°                                                                  |
| Handle              | 1 x Top                                                              |
| Pole Socket         | 34.8-35.2mm pole socket with StageLok™                               |

#### Accessories

|                      |                                                                                        |
|----------------------|----------------------------------------------------------------------------------------|
| Included Accessories | Cover panel, Power cord (2m), Speaker cables (6m) x 2, Non-skid pads x 12              |
| Optional Accessories | Yamaha BMS10A (mic stand adaptor) for mixer mount, FC5 (foot switch) for reverb ON/OFF |

## Specifications

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### Analog Input Specifications

| Input Terminals |       | MIC/LINE | Input Impedance                       | Source Impedance                            | Input Level |         |                      | Connector Type |
|-----------------|-------|----------|---------------------------------------|---------------------------------------------|-------------|---------|----------------------|----------------|
|                 |       |          |                                       |                                             | Sensitivity | Nominal | Max. before Clipping |                |
| CH IN 1-2       | XLR   | MIC      | 3 k $\Omega$                          | 150 $\Omega$ Mics                           | -56 dBu     | -35 dBu | -10 dBu              | XLR-3-31       |
|                 |       | LINE     |                                       |                                             | -30 dBu     | -9 dBu  | +16 dBu              |                |
| CH IN 3-4       | XLR   | MIC      | 3 k $\Omega$                          | 150 $\Omega$ Mics                           | -56 dBu     | -35 dBu | -10 dBu              | XLR Combo      |
|                 |       | LINE     |                                       |                                             | -30 dBu     | -9 dBu  | +16 dBu              |                |
|                 | Phone | MIC      | 10 k $\Omega$<br>(Hi-Z 1 M $\Omega$ ) | 150 $\Omega$ Lines<br>(Hi-Z 10 k $\Omega$ ) | -50 dBu     | -29 dBu | -4 dBu               |                |
|                 |       | LINE     |                                       |                                             | -24 dBu     | -3 dBu  | +22 dBu              |                |
| CH IN 5/6       | Phone | -        | 10 k $\Omega$                         | 150 $\Omega$ Lines                          | -24 dBu     | -3 dBu  | +22 dBu              | Phone*         |
| CH IN 7/8       | Phone | -        | 10 k $\Omega$                         | 150 $\Omega$ Lines                          | -24 dBu     | -3 dBu  | +22 dBu              | Phone*         |
|                 | Pin   | -        | 10 k $\Omega$                         | 150 $\Omega$ Lines                          | -24 dBu     | -3 dBu  | +22 dBu              | RCA Pin        |
| CH IN 9/10      | Phone | -        | 10 k $\Omega$                         | 150 $\Omega$ Lines                          | -18 dBu     | +3 dBu  | +28 dBu              | Phone*         |
|                 | Mini  | -        | 10 k $\Omega$                         | 150 $\Omega$ Lines                          | -18 dBu     | +3 dBu  | +28 dBu              | Stereo Mini    |

0 dBu=0.775 Vrms, 0 dBV=1 Vrms Phone\*: Unbalanced

### Output Specifications

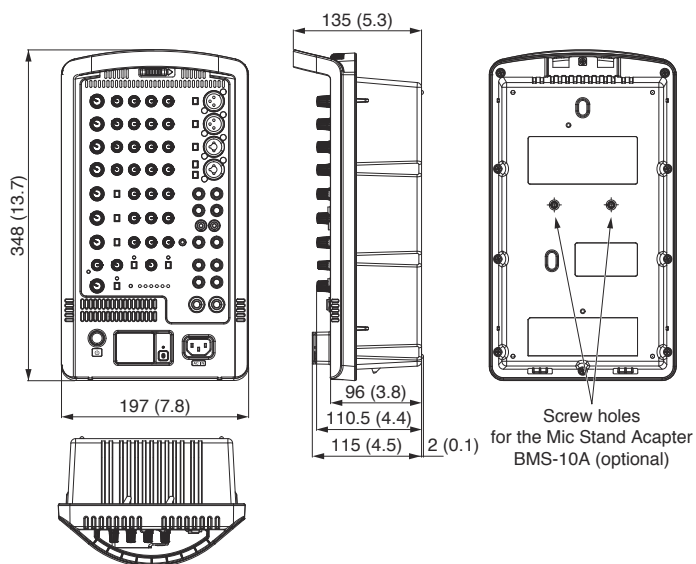
| Output Terminals   | Output Impedance | Load Impedance      | Output Level |                      |                  |         | Connector Type |
|--------------------|------------------|---------------------|--------------|----------------------|------------------|---------|----------------|
|                    |                  |                     | Nominal      | Max. before Clipping | Typ at THD+N 10% | Dynamic |                |
| SPEAKERS OUT [L,R] | <0.1 $\Omega$    | 4 $\Omega$ Speakers | 62.5 W       | 230 W                | 280 W            | 340 W   | Phone*         |
| MONITOR OUT [L,R]  | 600 $\Omega$     | 10 k $\Omega$ Lines | +4 dBu       | +20 dBu              | -                | -       | Phone*         |
| SUBWOOFER OUT      | 150 $\Omega$     | 10 k $\Omega$ Lines | -3 dBu       | +17 dBu              | -                | -       | Phone*         |

0 dBu=0.775 Vrms, 0 dBV=1 Vrms Phone\*: Unbalanced

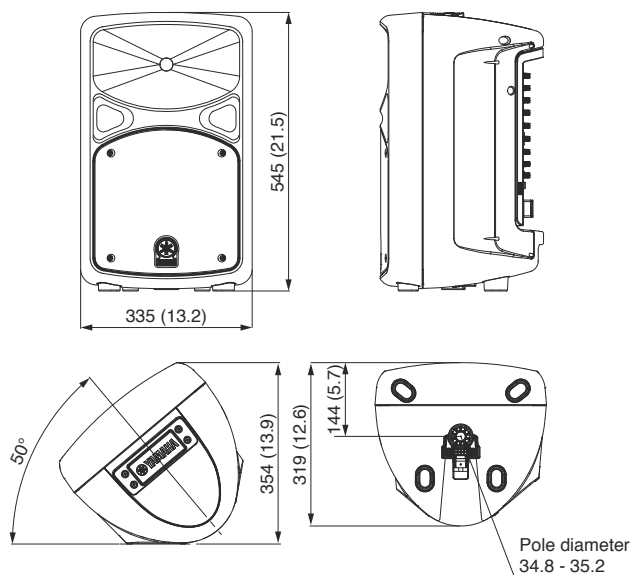
## Dimensions

Unit: mm (inch)

Mixer



Dedicated Speaker



## Options

- Mic Stand Adaptor BMS10A
- Foot Switch FC5

## Architectural and Engineering Specifications

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The Yamaha STAGEPAS 600BT shall be a portable PA system that incorporates a powered mixer with a pair of passive speakers.

The mixer section of the powered mixer shall have 10 analog mixing channels (4 mono microphone/line + 6 mono/3 stereo line) and a Bluetooth input. The STAGEPAS 600BT shall have 3-band channel EQ (HIGH Shelving at 8kHz, MID peaking at 2.5 kHz, LOW Shelving at 100Hz), a Hi-Z switch on channel 4, ST/MONO switches for channels 5/6 and 7/8 and 9/10, SPX digital reverb with 4 programs and parameter control, a feedback suppressor, 1-Knob Master EQ™, and +30V phantom power on channels 1 and 2. Outputs shall be SPEAKERS OUT (L and R), MONITOR OUT (L/MONO and R), and SUBWOOFER OUT (MONO) with auto HPF. A Reverb foot switch connector shall be provided.

The amplifier section of the powered mixer shall have a universal power supply that accepts AC line input from 100V to 240V at 50Hz or 60Hz.

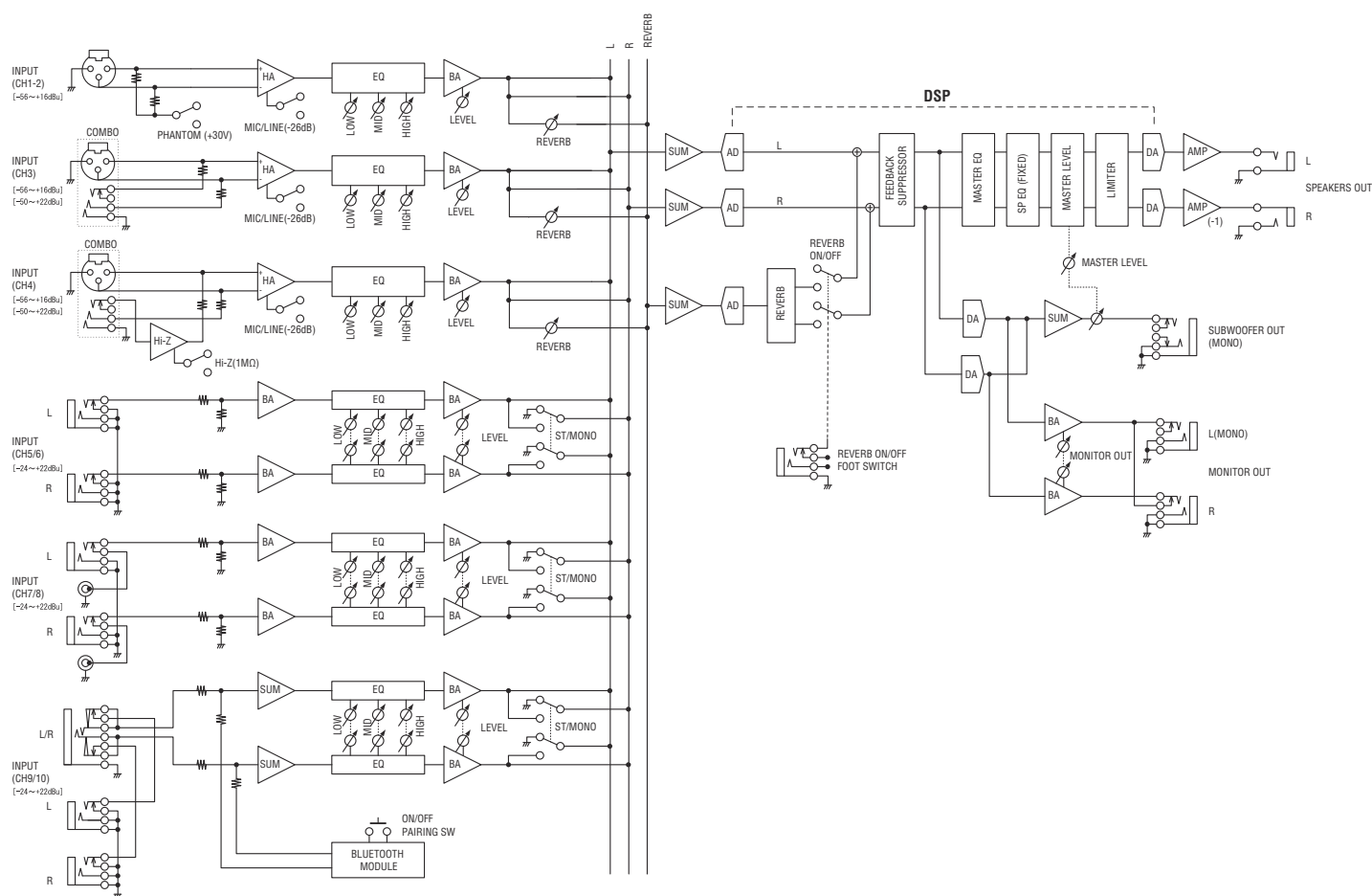
The power output rating shall be 680 watts (340 watts + 340 watts) dynamic, or 560 watts (280 watts + 280 watts) continuous.

The loudspeakers shall incorporate a single 10" cone for the low frequencies and a compression driver with a 1.4" voice coil for the high frequencies. The loudspeakers shall meet the following performance criteria: Maximum SPL shall be 129dB at 1 meter, frequency response shall be 55 Hz ~ 20 kHz at 10dB below rated sensitivity, and nominal coverage angle shall be 90° horizontal and 60° vertical. The loudspeaker shall have a 50° floor monitor angle, a top handle, and a 34.8 ~ 35.2 mm pole socket with StageLok™.

Powered mixer dimensions shall be 348 (W) x 197 (H) x 135 (D) mm. Powered mixer weight shall be no more than 3.8 kg. The dimensions of each loudspeaker shall be 335 (W) x 545 (H) x 319 (D) mm. The weight of each loudspeaker shall be no more than 10.9 kg. Total PA system weight shall be 25.6kg.

Accessories included with the portable PA system shall be: cover panel, power cord (2 meters), 2 speaker cables (6 meters each), 12 non-skid pads.

## Block Diagrams



\*All information subject to change without notice.

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