SILENT KNIGHT ®
by Honeywell

IntelliKnight® Model EVS-100W

Intelligent 50/100 Watt Amplifier with optional Backup Amplifier

The EVS-100W is an intelligent 50/100 watt amplifier for use with Version 14.0 or newer 5820XL-EVS. The EVS-100W is used to amplify audio message for distribution throughout a facility. The EVS-100W is capable of producing up to 100 watts of audio power and has the ability to provide an option for 50 watts of backup power.

For more information about the EVS-100W, or to locate your nearest source, please call 800-328-0103.

Description

The EVS-100W has its own power supply with battery backup and eight speaker circuits. The EVS-100W is fully supervised by the main panel for trouble conditions.

Features

- Amplifier Configurations:
  - 50 watts with 50 watts as backup.
  - 100 watt single channel.
  - 100 watt single channel with 50 watts backup using EVS-100WBU.
- Built in backup amplifier test feature allows you to physically test that the backup amplifier is operating properly.
- Up to four amplifiers per 5820XL-EVS distributed between up to 32 audio circuits.
- Six-wire connection to EVS system: Two-wires for the voice bus and four-wires for the SBUS connections.
- Amplifier Bandwidth 400 Hz to 4000 Hz.
- Can be mounted up to 6000 feet away from 5820XL-EVS control panel.
- 120 VAC or 240 VAC operation.
- UL 864 and UL 2572
- UL listed for Continuous or ANSI 520Hz speaker tones that meet NFPA 72 Low Frequency Signal Requirements for Sleeping Areas. See the 5820XL-EVS installation manual LS10061-001SK-E for a list of compatible speakers.
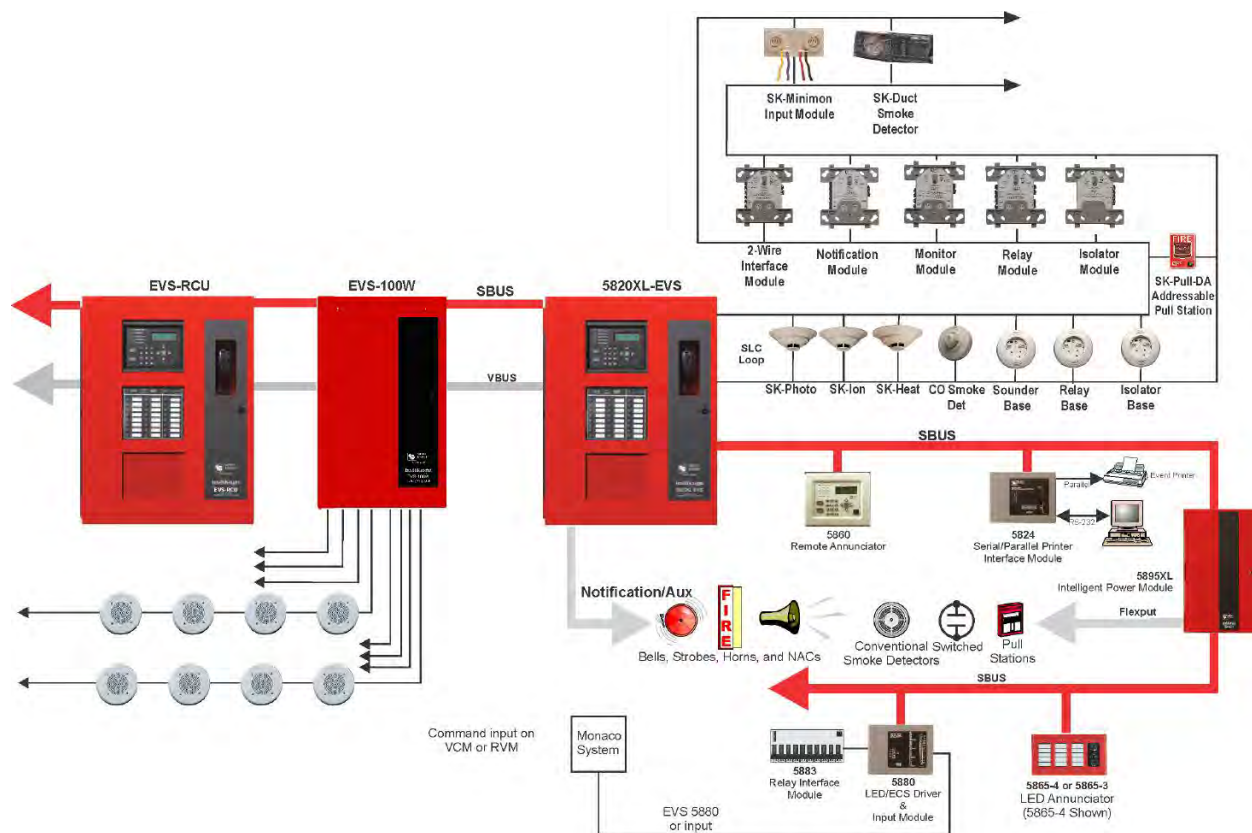

Model EVS-100W

Installation

The EVS-100W can be surface or flush mounted.

Compatibility

The EVS-100W is compatible with the following voice evacuation components:

- Version 14.0 or newer 5820XL-EVS Voice Integration Panel with Fire Alarm Control

Specifications

Physical
Flush Mount Dimensions:
14.5"W x 24.75"H x 3.4"D
(36.8 W x 62.9 H x 8.7 D cm)

Overall Dimensions:
16.1"W x 26½"H x 4 1/8"D
(40.6 W x 66.7 H x 10.5 D cm)

Color: Red

Environmental
Operating Temperature: 32ºF – 120ºF (0ºC – 49ºC)

Humidity: 10% – 93% non-condensing

Electrical
Primary AC: 120 VAC @ 60 Hz; 240 VAC @ 50 Hz

Standby Current:

EVS-100W 25V 110 mA

EVS-100W 70.7V 110 mA

Alarm Current:

EVS-100W 25V, 1.2 A

EVS-100W 70.7V, 1.4 A

Total Power:
100 W @ 25 VRMS or 70.7 VRMS
  • Circuit 1-4: 50 W max.

• Circuit 5-8: 50 W max.

Main EVS Panel SBUS Standby & Alarm: 10 mA

Battery Charging Capacity: 7 – 35 AH

Battery Size: 18 AH max allowed in cabinet. Use RBB accessory cabinet for larger batteries up to 35 AH per system.

Voice Integration Wiring:
  Six conductor
  Two voice bus
  Four SBUS

Listings
NFPA 13, NFPA 70, NFPA 72, UL 2572, UL 1711 & UL 864 & UL2572

CSFM (pending); MEA (pending)

Ordering Information

EVS-100W   Intelligent 50/100 Watt Amplifier

Accessories
EVS-100WBU   External Backup Amplifier

RBB   Remote Battery Box Accessory Cabinet. Use for backup batteries up to 35 AH.