



## SHY-150 Audio Volume Amplifier and EKB-A1 Electronic Control Unit



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# SHY-150 Audio Volume Amplifier and EKB-A1 Electronic Control Unit

Operating Voltage	Operating Voltage Range	Max Input Power
28VDC	18-36 VDC	200 W

The sound volume amplification system, which has been developed to be used in outdoor, consists of a sound signal amplifier and the electronic control unit used to manage it.

Powered by 28V DC voltage, SHY-150 can drive two 8ohm 75W speakers in the frequency range of 20Hz-16kHz.

SHY-150 can play pre-recorded sound files on its own according to a specific scenario and desired sound volume value, as well as files sent to it via the connecting cable via EKB-A1.

Ethernet infrastructure is used for communication between SHY-150 and EKB-A1. Connection cable length can be increased up to 100 meters allowed by the Ethernet standard.

EKB-A1 provides comfortable use with its ergonomics, LCD screen and keypad.

EKB-A1 receives its power supply from SHY-150 via the connecting cable.

It can receive digital audio files in MP3 and WAV format via external USB memory, and record analog audio signals from the microphone and external analog input.

In this way, EKB-A1 can store audio files with a total length of 65 minutes in its memory.

EKB-A1 software updates can be made via USB memory.

SHY-150 and EKB-A1 are qualified to military standards.

## Input Features

● Operating Voltage	28VDC
● Operating Voltage Range	18-36 VDC
● Max Input Power	200 W

## Output Features

● Speaker-1 Output	75W 8 $\Omega$
● Speaker-2 Output	75W 8 $\Omega$
● Total Output Power	150
● Frequency Range	20Hz-16kHz
● THD	< %2
● Efficiency	> %80

## Mechanical Properties

● Unit	GYB	EKB
● Width	180 $\pm$ 1 mm	96 $\pm$ 1 mm
● Height	104 $\pm$ 1 mm	172 $\pm$ 1 mm
● Depth	191 $\pm$ 1 mm	38 $\pm$ 1 mm
● Weight	2.5 $\pm$ 0.5 kg	0.6 $\pm$ 0.1 kg

## Elektromagnetic Compatibility

● MIL-STD-461G	CE101, CE102 CS101, CS114, CS115, CS116, CD118 RE101, RE102 Rs103
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## Environmental Characteristics

● Operating Temperature	MIL-STD-810G -30°C ~ +60°C
● Storage Temperature	MIL-STD-810G -40°C ~ +70°C
● Vibration	MIL-STD-810G, Method 514.6 Category 4
● Shock	MIL-STD-810G, Method 516.6 Shock, Procedure I Functional Shock, 40g 11ms (sawtooth waveform)
● Sealing	Ip68
● Rain	MIL-STD-810G Method 506.5 Procedure I
● Salt Fog	It has been tested on a piece-by-piece basis to ensure that it can continue to operate at full performance after being exposed to seawater wetting and spray with 5% (five percent) salinity (the amount of salt (NaCl) remaining on the surface is 1 (one) g/m2/day). Salt Mist/Spray conditions comply with MIL-STD-810G 509.5.
● Solar Radiation	MIL-STD-810G Method 505.5, Procedure I, According to Design Type Hot Dry (A1), it will be tested on a piece-by-piece basis to ensure that it will not be affected by changes in solar radiation.
● Low Pressure	MIL-STD-810G, Method 500.5, Procedure II (3500m altitude or 660 mbar pressure)
● Humidity	MIL-STD-810G, Method 507.5 %95 relative atmospheric humidity

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