1009971000

Interguard 60 W Amplifier

100V Line

Description

- 1 output for 100 V line with a maximum of 60 W load
- Line monitoring on loudspeaker output. The monitoring can be integrated with the AlphaCom line monitoring feature
- Status indicators at the front shows error type:
  Line error, amplifier error, load error, overheating, GND fault and overload
- AUX input and/or AlphaCom abcd-wire input
- Connection to AlphaCom as a station or in parallel with a station
- Volume control, and bass/treble control accessible in front. Volume level is adjustable
- Volume override facility
- Standby mode when no signals are present to preserve power
- Set and reset keys for programming and service of the amplifier. Programmable impedance level for line

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monitoring, time between tests and error detection limits

- Monitoring of amplifier and output for automatic change-over to standby amplifier
- Each amplifier in closed housing, complies with IP20 classification (finger-proof)
- Designed to meet IEC65/EN60950 requirements

The IG60 W is well suited for distribution of audio for information calls, background music and evacuation messages. Audio input can be from an AlphaCom exchange and/or other audio. The ab-wire input has priority over the AUX input. The AlphaCom exchange sees the amplifier as a subscriber station. Each amplifier can connect loudspeakers with a maximum load of 60W.

The amplifier performs line monitoring on the loudspeaker output at regular intervals. LEDs on the front panel of the amplifier indicates type of line error. Different monitoring parameters can be programmed and the references are stored in the EEPROM. The amplifier tracks slow variations in line impedance to avoid false errors. Load errors on the output like open load or shorted load will be reported to the AlphaCom as line fault. Missing power also generates a line fault, so the exchange can detect an unpowered amplifier. In addition a relay driver output supports change-over to a standby amplifier.

Specifications

GENERAL

Power Supply: AC, 50 - 60 Hz Battery	24 - 48 VAC (Recomm. 24VAC, 20 - 56 VDC (Recomm. 24 VDC)
Input Fuse	T 6.3A 5 x 20mm
Power Consumption: Standby, Active, no output power, Active, 60W output power	4 W (170 mA at 24 VDC), 15 W (625 mA at 24 VDC), 108 W (4.5 A at 24 VDC)
Nominal Power output / load impedance: 100 V line	1 x 60 W / 166 ohm
Nominal input levels / impedance: ab-wire , AUX	450 mV rms. / 300 ohm, 100 mV rms. or 1V rms. / 600 ohm
Frequency range	60 Hz - 16.5 kHz
Distortion, THD+N:	< 1% at 1kHz and 60 W output
Signal / Noise Ratio	>70 dB
Amplifier Protection	Shortproof output, Ground fault detection, Over temperature proof (automatic shutdown)
Line impedance monitoring: Max. cable length / capacitance, Shorted line detection range, Open line detection range, Load change detection limit, Error detection time / test interval (adjustable), Test signal	300 m (90 nF/km cable) / 27 nF, 0 - 300 m (90 nF/km cable), 0 - 30 m (90 nF/km cable), 5 W, 20 sec., 20 kHz
Recommended room temperature	-10º C to + 35º C , 14º F to + 95º F, Forced cooling may be required.
Humidity Range (non-condensing)	10% - 90% RH

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condensing)	
Dimensions H x W x D	3U x 14 HP x 220 mm (8.6”)
Weight	1.2 kg/2.6 lb.
Rack mounting	19 “ rack - 3U height, 6 amplifiers in one rack
Chasing	Max. 21 amplifiers on one abode output

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