



FEATURES

- 250 W Output Power
- Front-Panel LEDs: Output Signal Level, Temperature and Overload Indicators
- Temperature and Overload Protection
- Wide Frequency Response 40 to 15,000 Hz +/- 1 dB
- Low Distortion and Noise Levels
- Transformer Outputs: 4 Ohm 8 Ohm, 25 V and 70 V
- Switchable Input Sensitivity
- Balanced/Unbalanced Configuration
- Optional Modules

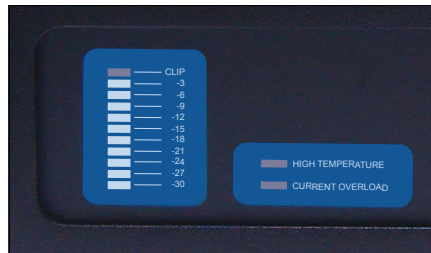


DESCRIPTION

The Telecor model SI-250 Amplifier delivers up to 250 W of power at less than 0.5% total harmonic distortion with a frequency response of 40 to 15,000 Hz +/- 1 dB. The device is designed for dependable continuous operation. Elaborate protection circuitry is implemented in the design, to ensure maximum protection from damage caused by overloads and shorted line conditions.

Current limiting protection is activated whenever the amplifier is overloaded. Current will be limited to the speaker load, and an LED will light, if the amplifier is overdriven, connected to an excessive load or short circuited.

A thermal sensor detects excessive heat build-up in the heat sink and automatically reduces the output level to lower the temperature to an acceptable level. If necessary, the amplifier will shut down to prevent damage to internal components. A warning LED lights in the event of an unusual temperature rise.

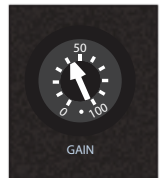


A calibrated LED level meter indicates the amount of signal present in 3 dB steps, from -30 dB to -3 dB. The clip LED lights whenever the output stage is about to clip from either an overdriven input or an overloaded output.

Rear panel input terminals can accommodate either a balanced input signal source or a single-ended input signal source connection to the amplifier. A 0 dBv (1 V) or a -20 dBv (100mV) input signal level can be selected with a sensitivity switch.

Barrier strips are used for input/output connections. This provides more secure wiring terminations and greater current handling capabilities than typical phone jacks or binding posts.

The amplifier is provided with a recessed adjustable input attenuator. To prevent casual tampering, the control must be adjusted by means of a screwdriver. A plastic cap is supplied for added security.



Output configurations are available for 4 Ohm or 8 Ohm speakers, as well as 25 V or 70 V constant voltage lines.

Optional factory-installed modules are available and can add additional functionality to the amplifier.

PA-PM Power Amplifier Paging Module: provides the amplifier with additional inputs for a low impedance microphone and two balanced line level inputs. The three inputs can be assigned priorities, configurable with internal jumpers on the module. Each input is activated with an external contact closure.

PA-AM Power Amplifier Attenuator Module: allows the amplifier to accept a 25 V input signal.

PA-MM Power Amplifier Monitor Module: monitors critical voltage levels inside the SI amplifier and provides an alarm contact when the voltages fall outside the normal operating range.

SPECIFICATIONS

Input Level:	1 V or 100 mV (switchable)
Input Impedance:	10 k Ω (balanced)
Output:	250 watts RMS into balanced 4 Ω , 8 Ω , 25 V, or 70 V lines
Frequency Response:	40 to 15,000 Hz (\pm 1 dB)
Total Harmonic Distortion:	0.05% @ 1 kHz rated output
Output Regulation (with Transformer):	< 1 dB, no load to full load
Signal to Noise Ratio (Band Pass 20 to 20,000 Hz):	Input Level switch in 0 dBv (1 V) position: > 84 dB
Connectors:	Screw-Barrier Terminals on input and output Mas-con connectors used with optional modules
Controls:	Power Switch (Illuminate), Gain Control, Low Cut Switch, and Input Level Switch (1 V / 100 mV)
Indicators:	Clip, High Temperature, VU Meter, and Current Overload
Protection:	Foldback current limiting, Over-temperature protection, Primary circuit fused at 7 A
Temperature Range:	-10°C to +35°C (12°F to 95°F)
Power Consumption:	AC 120 V, 60 Hz
Idle:	20 W
Full Load:	680 W
Weight:	19 kg (42 lbs)
Dimensions (without amplifier handles):	13.33 cm H x 48.25 cm W x 33 cm D (5.25"H x 19" W x 13" D)
Finish:	Black Powder Coating
Optional Modules:	
PA-AM	Power Amplifier Attenuator Module
PA-MM	Power Amplifier Monitor Module
PA-PM	Power Amplifier Paging Module

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