



SOLAR MODEL 2352-1 200 Watt Audio Power Amplifier for conducted audio frequency susceptibility testing

APPLICATION

The Solar Model 2352-1 200 watt Solid State Audio Power Amplifier was specifically designed for use with the Type 6220-1A Audio Isolation Transformer in making audio Frequency susceptibility test as required by Mil-Std-461E/F CS101. It also can be used for other EMI specifications.

DESCRIPTION

The Solar Model 2352-1 Audio Power Amplifier has a wide band frequency response and is capable of providing up to 200 watts at 1000 Hz into 2.0 ohms. Requires approximately 0.5 volts signal input for maximum power output at 1000 Hz. Designed for laboratory use with conventional 3/4" binding posts. A panel mounted fuse and an overload trip indicator protect the instrument from excessive out current or over-voltage conditions encounter in some applications.

SPECIFICATIONS

Frequency Range: 20 Hz to 150 KHz
Frequency Stability: 250 ppm/C
Input Voltage: 0.5 volt for maximum power at 1000 Hz
Input Impedance: 600 Ω
 (For a 50 Ω, place a 550 Ω resistor in series with the input)
Output Power: 200 watt into 2.0 Ω non-inductive
Output Impedance: 2.0 Ω
Output Voltage: ≥20 volts RMS into 2.0 Ω non-inductive

Power Requirements

Power Source 115/230 V 60/50 Hz
 Power Line Fuses 115 V 12 amperes (2)
 Power Line Fuses 230 V 5 amperes (2)

Physical Dimensions

Net Weight 39 Lbs (17.7. Kg)
 Shipping Weight 45 Lbs (20.4. Kg)
 Height 9.12 Inches (22.2 cm)
 Width 17.12 Inches (43.5 cm)
 Depth 13.50 Inches (34.3 cm)

FEATURES

- Digital volt meter, monitors the output voltage level.
- Wide frequency range; 30 Hz to 150 kHz. (200 watts into 2.0 Ω (non-inductive))
- Low Output Impedance for greater transfer of audio power
- Protective circuits prevent damage to output stage caused by power frequency feedback in typical a.c. tests setups.
- Up to 200 watts output into 2.0 ohm resistive load

AVAILABLE ACCESSORIES

SOLAR Type 6220-1A Audio Isolation Transformer
 Use for injecting output of 2352-1 in series with the power line to test sample as required by test method CS101, Mil-Std-461E/F

SOLAR Type 7032-1 Isolation Transformer
 Use for removing power ground from the case of scope or voltmeter.

SOLAR Type 8810-1 Impedance Matching Transformer
 Plugs into output terminals to step up the output to 50 ohms impedance. Use when 50 ohm signal source in needed.

SOLAR Type 8811-1 Wide Range Transformer
 Plugs into output terminals to provide up to 115 volts rms at 200 watts. Use as a power source for frequencies from 30 Hz to 2 kHz.

SOLAR Type 9138-1 Step-up Transformer
 Plugs into output terminals to provide up to 2 KV into 20 kilo-ohms load, 3 kHz to 30 kHz.

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