

Powertron

INDUSTRIAL TEST EQUIPMENT CO., INC.

21 Yennicock Avenue, Port Washington, NY 11050 • (516) 883-1700

AMPLIFIERS - SERIES 80S, 250S, 350S, 500S

GENERAL SPECIFICATIONS

Output Circuit: Single phase, isolated (Ground terminal is provided for optional grounding of output.)

Load Power Factor: 0.7 Lead through 0.7 Lag for full power. Useable to 0.2 at reduced power.

Output Voltage Range: 0-130 V RMS (An output connector provided at the rear of the unit may readily be reconnected to provide optimum power output at other voltages. Ranges available are: 0-260 V, 0-190 V, 0-130 V, 0-90 V, 0-75 V, 0-67 V, 0-60 V, 0-38 V, 0-30 V, 0-17 V.)

Output Distortion: 0.3% mid band.

Load Regulation: Factory set to $\pm 0.5\%$ mid band. (A control is provided for zero regulation adjustment over most of the frequency range.)

Line Regulation: $\pm 0.1\%$ for $\pm 5\%$ line change.

Transient Response: 50 microseconds.

Hum Level: 80 db approx. below rated output voltage.

Short Circuit Protection: Output may be shorted indefinitely without damage to unit.

Thermal Overload Protection: Output transistors protected by thermal cutout circuit.

External Amplifier Input: An input connector is provided on the rear of the unit when it is desired to drive the amplifier from an external source. Model XA-1 plug-in module is required for this mode of operation.

External Sync Input: An input connector is provided at the rear when it is desired to synchronize the plug-in oscillator with an external frequency source.

Convenience Outlets: Two convenience outlets controlled by the power switch are provided at the rear of the unit. These permit single control operation of one or two additional amplifiers when 2 ϕ or 3 ϕ outputs are required. When not used for this purpose, the outlets may also be used to turn on auxiliary equipment which is mounted in the same console.

Meter: A voltmeter with range of 0-150 V RMS is provided to monitor the output voltage. When used on higher output voltage, meter reads $\frac{1}{2}$ voltage. (Meter not included on Model 80S.)

Input Power: 115 V or 230 V, 50-60 Hz (400 Hz input available).

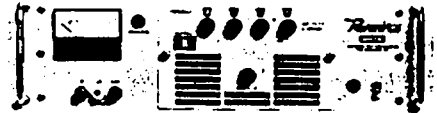
Ambient Temperature Range: 0°C to 55°C.

MODEL 80S



Output Power: 80 VA
Freq. Range: 45 Hz—10 KHz (full power)
20 Hz—20 KHz (reduced power)
Size: 5 $\frac{1}{4}$ " x 19" rack panel, 14" deep
Weight: 50 lbs.

MODEL 250S



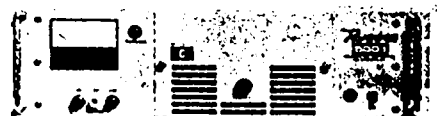
Output Power: 250 VA
Freq. Range: 45 Hz—10 KHz (full power)
20 Hz—20 KHz (reduced power)
Size: 5 $\frac{1}{4}$ " x 19" rack panel, 14" deep
Weight: 70 lbs.

MODEL 350S



Output Power: 350 VA
Freq. Range: 45 Hz—10 KHz (full power)
20 Hz—20 KHz (reduced power)
Size: 5 $\frac{1}{4}$ " x 19" rack panel, 14" deep
Weight: 70 lbs.

MODEL 500S



Output Power: 500 VA
Freq. Range: 45 Hz—5 KHz (full power)
20 Hz—20 KHz (reduced power)
Size: 5 $\frac{1}{4}$ " x 19" rack panel, 14" deep
Weight: 75 lbs.