MODEL AL-1400-CV/S CONSTANT VOLTAGE SOURCES

The model AL-1400-CV/S power sources are wideband, full complimentary class AB linear programmable power supplies. The output frequency is adjustable from 47 Hz to 10K Hz. They are widely used in manufacturing industries and research laboratories where audio frequencies are needed for special testing. Applications include plasma excitation, induction heating, magnetic field generation and testing products such as Helmholtz coils, piezo elements, inductors, capacitors, etc. In addition to the basic model, we offer purchase options for users to control the output parameters by: (1) 0-10V DC control signal; (2) RS232 commands; (3) GPIB commands.

Specifications of model AL-1400-CV/S Constant Voltage Power Sources

Output:

- **Output Power:** 1400 watts
- **Output Volts:** 0-130 V rms. or 0-260 V rms. adjustable (unless otherwise specified)
- **Output Frequency:** 47 Hz - 10K Hz (up to 20K Hz if low bound frequency starts from 2K Hz or higher)
- **Output Waveform:** Sine wave (Square and triangle waveforms will work at less bandwidth.)
- **Maximum Output Current:** 10.77 A rms. @ 130 V rms.
  5.39 A rms. @ 260 V rms.
- **Output Regulation:** 1% Load Regulation at mid-band; .1% Line Regulation
- **Output Distortion:** 1% T.H.D. or better (up to 10K Hz)
- **Hum and Noise:** -65 dB below full output or better
- **Output Volt Meter:** Front panel analog meter
- **Output Amplitude Control:** 10-turn lockable pot on front panel
- **Output ON/OFF Control:** Back panel closed/open contact to enable/disable output signal
- **Short Circuit Protection:** Input line circuit breaker
- **Internal output fuse**
- **Thermal Protection:** Auto-reset thermostat prevents heat damage
- **Power Factor Range:** +0.7 to -0.7 for full power; to zero @ reduced power

Input Power:

- **Power Efficiency:** 45% max.
- **Input Power:** 120 V AC 60 Hz (Default), L5-30S Socket
  230 V AC 60 Hz (at request)
- **Input Line Current Req.:** 33 A @ 120 V AC (or 17 A @ 230 V AC)

Other Specifications:

- **Dimensions:** 7.0"H X 19"W X 23"D
- **Weight:** 150 lbs approx.
- **Cooling Method:** Internal fans (Intake-front; Output–rear)
- **Output Connection:** Amphenol MS3102A connector (mating connector provided)
- **Operating Temp Range:** 20 to 140 deg F
- **Storage Temp Range:** -20 to 170 deg F

Purchase Option(s):

1. **Purchase Option 101:** 0-10 V DC Remote Control Option (Add “-C0/10” at the end of the model number.)
2. **Purchase Option 102:** RS232 Remote Control Option (Add “-RS232” suffix to model number.)
3. **Purchase Option 103:** GPIB Remote Control Option (Add “-GPIB” suffix to model number.)