

MODEL 7500A

Versatile A.C. welding power supply

The Model 7500A is a single phase, synchronous, bench mounted A.C. welding power supply which can be used with either air or manually actuated weld heads. Front panel digital THUMBWHEEL SWITCHES make it convenient to select the amplitude and duration of the output welding current. The solid-state synchronous circuitry delivers repeatable welding pulse characteristics weld-after-weld. The WELDING TRANSFORMER AND TAP SWITCH PROVIDE 9 DIFFERENT OUTPUT VOLTAGES which allows the 7500A to be used in a wide range of metal joining applications including resistance soldering and brazing.

The SOLID-STATE CONTROL CIRCUITRY is convection cooled and designed to provide accurate, repeatable results and is housed with the 7.5 KVA welding transformer. Special precautions have been taken to ensure reliable operation in high radio frequency (RFI) and electromagnetic (EMI) environments. Overload protection is provided by a circuit breaker and fuses. Welding heads, handpieces or fixtures can be connected directly to the output terminals located on the front panel. The 50 volt-amp Valve Driver Circuit will control air heads with either 115 or 24 volt, 50/60 Hz. valves. When the 7500A is used with an air actuated weld head, it requires the use of a single level footswitch. The 7500A includes carrying straps which allow the unit to be moved safely and easily. The 7500A can operate at 115, 208 or 230 volts, 50 or 60 Hz.

Complete your welding system by selecting from a range of field-proven Unitek Equipment welding heads, handpieces and accessories.



FEATURES

- Synchronous Control
- Half-Cycle Welding
- Tapped Welding Transformer
- Digital Thumbwheel Programming
- Front Panel Indicators
- RFI and EMI Protection

BENEFITS

- Provides repeatable process control and is compatible with air or manually actuated weld heads
- Facilitates welding of small parts
- Provides wide range of output voltages to solve a broad spectrum of applications
- Allows operators to set welding current accurately and quickly
- Confirms proper operation of Controller, Transformer and Valve Driver
- Ensures reliable operation in high electrical noise environments



UNITEK EQUIPMENT® INC.
1820 S. Myrtle Ave., PO Box 5033, Monrovia, CA 91017-7133
(818) 303-5676 FAX: (818) 358-8048

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Specifications

TYPE CONTROL – The Model 7500A is a Single Phase, Synchronous, Bench Mounted, A.C. Welding Power Supply, NEMA Type BS2HX. Digital Thumbwheels are used to set: the Weld Period to ½, or from 1 to 99 cycles; and the Weld Current from 10% to 99% in 1% steps.

LINE VOLTAGE – Single phase 115, 208 or 230 volts, 50/60 Hz. Power supply is shipped wired for 230 volts unless otherwise specified. The Circuit Breaker is rated at 30 amps, 250 volts AC.

OUTPUT – 7.5 KVA at 230 or 208 volts, 60/50 Hz. 4 KVA at 115 volts, 60/50 Hz. These ratings are for a 10% Duty Cycle. The maximum short circuit welding current is 16,000 amps. The Welding Transformer has 3 Primary and 3 Secondary Taps. The Primary Taps are selected by the Tap Switch on the front panel. The Transformer insulation is Class 130, rated 130°C.

MODEL 7500A OUTPUT VOLTAGE

Primary Tap:	HI	MED	LOW
Secondary Connection – HI to LO	1.9	1.6	1.4 volts (rms)
COM to LO	3.7	3.2	2.8 volts (rms)
COM to HI	5.6	4.9	4.3 volts (rms)

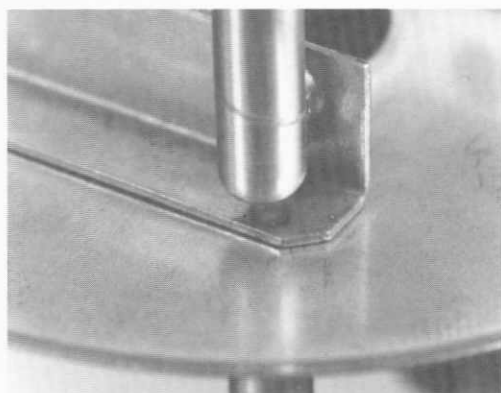
VALVE DRIVER – The output of the valve driver circuit is 50 volt-amps at either 24 or 115 volts AC.

DIMENSIONS (H × W × D) – 10½ × 9 × 19 inch (26.7 × 22.9 × 48.3 cm)

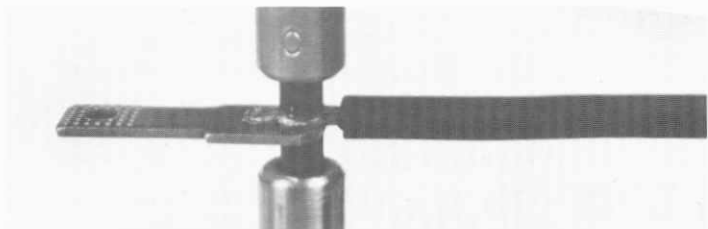
WEIGHT – 120 lbs. (54.5 kg)

ORDERING INFORMATION – Specify Model 7500A for 230 volt operation. Specify 7500A/115 for 115V and 7500A/208 for 208V.

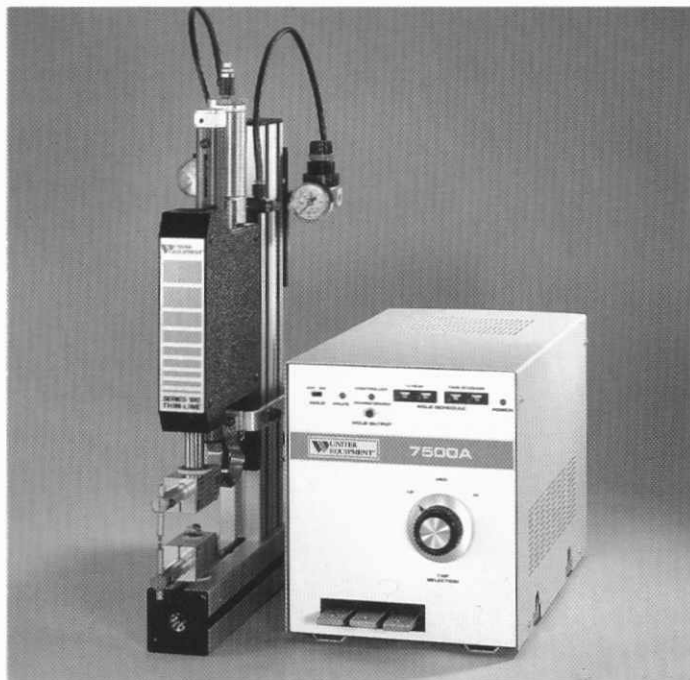
REQUIRED ACCESSORIES – Welding Head, Footpedal for Manual Heads, Single Level Footswitch for Air Actuated Heads.



Light gauge (.020 to .030 inch) stainless steel construction.



16 gauge stranded copper wire welded to .032 inch brass terminal.



Air actuated Weld Head plugs into 7500A for direct control.

