The L-Series Inverter Resistance Welding Control

WeldComputer Corporation’s L-Series Inverter Resistance Welding Control provides precise heat control with superior regulation for all mid-frequency DC, single phase and three phase resistance welding applications.

The system includes the following standard features:

- A programmable weld schedule structure capable of emulating any weld schedule function and providing capabilities far exceeding that of any other weld control.
- A simple to use operator interface that minimizes the time to set up new weld jobs.
- Virtually unlimited storage capacity for weld schedules on removable media.
- A proprietary precision heat control/line compensation system capable of rapidly offsetting the effects of severe voltage and line frequency variation.
- Programmable feedback parameters to allow optimization of the weld machine electrical performance.
- Eight optically isolated input and eight output modules to activate standard and special welding peripherals and perform other user-programmable functions that can eliminate the need for a separate PLC.
- For manual applications, a safety relay protects the operator by physically disabling weld valve and forge valve voltage when no weld initiation signal is present.

Options available:

- Wave Synthesis technology allows interfacing to any welding transformer (50-60Hz AC, 3 Phase or mid-frequency DC).
- Digital Contact Gauge to prohibit firing before a minimum cylinder pressure is reached.
- Digital Programmable Air Systems for setting cylinder pressures from the weld schedule.
- Programmable Motor Control for seam welders.
- 24 VDC Power Supplies for DC IO Modules and to power control.
- Extra eight optically isolated input and eight output modules for complex automated applications.
- Network upgrade that enables transmission of weld schedules to and from the plant network.
- Tip Travel Force Control System to protect the operator from serious pinch-point injury.
- Inverter assemblies ranging from 50 amps to 8000 amps to meet any welding application.