

CD-V power supply with TL-V weld head

CD-V Series

Capacitive Discharge Power Supplies

The CD-V series welders are high value, compact capacitive discharge welders featuring dual pulse output with full control of both pulses.

- Consistent welding output for repeatable process results
- Built-in peak current indicator
- Pulse shaping with adjustable upslope to reduce expulsion
- Set/store up to 8 schedules to quickly change between different weld schedules
- PS-Control - push button rotary encoder.

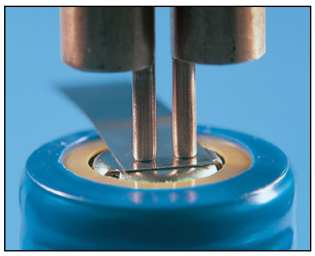
KEY FEATURES

- Fully controllable dual pulse output
- Adjustable pulse separation for process optimization
- Rapid fire between pulses for quick welding of adjacent location
- Ultrafast rise time for conductive material welding
- Pulse rise time control
- Peak current monitor indicates if weld occurred
- Programmable squeeze time
- Weld counter
- CE and CCC compliant
- Built in the USA

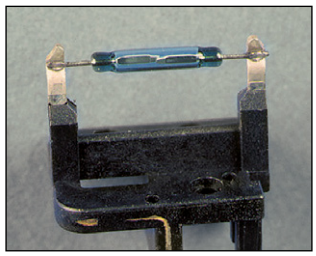
KEY MARKETS/APPLICATIONS

- Battery – Tab to cell welding
- Electronics – cross wire welding, wire to terminal, wire lead to pad
- Aerospace – Honeycomb tacking
- Medical – medical device interconnects
- Jewelry – repair

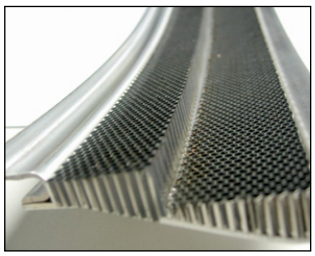
TYPICAL APPLICATIONS



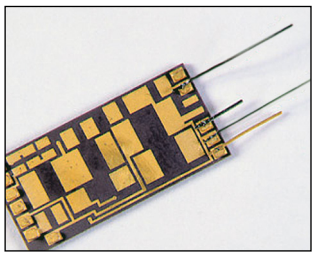
Battery tab welding



Interconnects



Honeycomb tacking



Fine wire to pad

TECHNICAL SPECIFICATIONS

Model	CD-V120A	CD-V260A
Max energy output	120 Ws	260 Ws
Weld speed @ 50% (per min)	105	78
Weld functions	Single pulse, dual pulse and roll spot	
Upslope	Adjustable (between 0.1 and 15 ms)	
Dual pulse	Yes, Pulse1 and Pulse2 with independent control	
Pulse length	Adjustable (each pulse has a window between 0.1-150 ms, default 15 ms)	
Monitoring	I_{peak}*	
Programmable squeeze	Yes (0-250 ms, default 100 ms)	
Hold time	Controlled via footswitch or handpiece	
Weld counter	Yes	
Schedules	8 internally programmable schedules	
2-Level foot switch	Optional	
Output relays	No	
Communication**	No external communication	
Power input	90-240 VAC, 50/60 Hz, 10 A (standard wall plug)	

**Relative indicator to indicate firing. We recommend an external monitor for actual process monitoring.*

***For units with external communication, please see our CD-A datasheet*

WELDHEADS

The CD-V works with the following weldheads, handpieces and footswitches:

- Manual Cable Driven - Model TL-V080B-F, TL-V088B-F
- Standard Air Solenoid Driven - Model TL-V080B-A, Model TL-V088B-A
- Hand Pieces - Models THP-CD (pictured), other models GHP-CD, HFP-CD, PHP-CD



Tweezer Hand Piece - Model THP-CD



TL-V080B - opposed electrodes



TL-V088B - series electrodes

WEIGHT & DIMENSIONS (Power supply only)

Dimensions (W x D x H)	8.72 in x 14.92 in x 8.06 in (221 mm x 379 mm x 205 mm)
Weight	22 lb (10 kg)

CE

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