

125/300/1000ADP

New Generation CD Welders



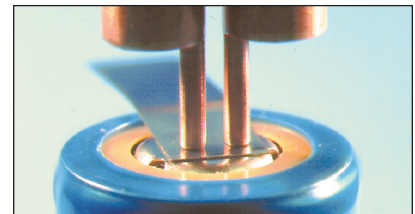
New generation Advanced Dual Pulse CD welders with pulse monitoring, limits and unique process tools for improved weld quality

- Built-in current monitor
- Set pulse limits with second pulse inhibit
- Four pulse widths with fast rise times
- Automatic polarity switching
- Upslope function
- Quick view color screen

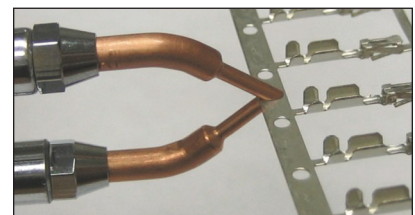
KEY FEATURES

- **Dual pulse function** – Overcomes surface inconsistencies
- **Built-in monitor** – Internal sensor measures peak current for both pulses for process monitoring
- **Process monitor** – Color coded bar graph on RUN screen provides instant weld history of In Limits/ Out of Limits percentages to assess process performance
- **Set test pulse and pulse limits with inhibit option** – Upper and lower limits can be set for both pulses, with option of inhibit Pulse 2 if Pulse 1 is out of limits to prevent weld blow out
- **Upslope function** – Gradual ramping of weld energy to alleviate weld splash – a first for CD welders
- **Polarity programming by pulse (125ADP, 300ADP)** – Automatic polarity switching between pulses provides even heating between electrodes and increases electrode life
- **Four software selectable pulse widths (125ADP, 300ADP)** – Increases the range of welding applications and improves process optimization. 1000ADP has three jumper selectable pulse widths
- **High resolution 6.5 inch color display** – Large clear display with all weld information visible on RUN screen
- **High repetition rate** – Efficient power electronics provide improved repetition rates

TYPICAL APPLICATIONS



Battery tab welding



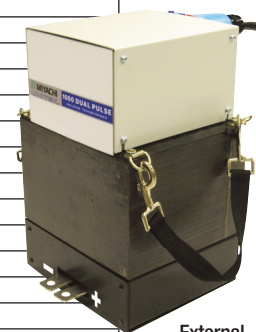
Tack welding of carrier strip



Conductive terminal attachment

SPECIFICATIONS

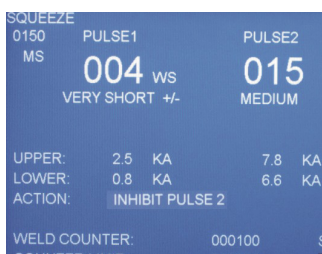
Feature	125ADP / 300ADP / 1000ADP
Input Line Voltage	90-138 VAC, 50-60Hz 180-264 VAC, 50-60Hz
Dual Pulse	Yes
Air Head Driver Output	24V, DC or AC – 0.5A Max.
Weld Schedules	63
Chain Schedules (Automatic Step)	Yes
Programmable Squeeze Time	Programmable per schedule from 0-2.999 sec.
Programmable Hold Time	Programmable per schedule from 0-2.999 sec.
Remote Schedule Selection	Yes
Programmable Polarity	Positive/Negative/Alternating (125ADP, 300ADP only)
End Cycle Buzzer	Yes
Output Relays	Weld Ready, Weld End, Counter Limit, Alarm, Out of Limits
Microprocessor Control	Yes
Weld Counter with User Programmable Limit	Yes
Languages	English, Spanish, German



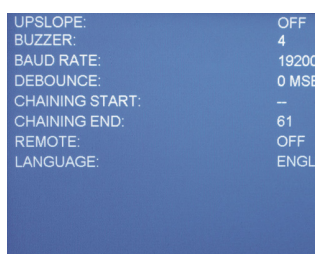
External Transformer



RUN screen



LIMITS/ COUNTER screen



SETUP screen

RUN screen contains all information at a glance, with color coding. When Out of Limits occurs, box turns from green to red. Weld counter shows In Limits/ Out of Limits percentage.

LIMITS/ COUNTER screen. Set limit settings with second pulse inhibit option if Out of Limit condition occurs on Pulse 1. Reset weld counter and set counter limit.

SETUP screen. Upslope, chaining and language select.

OUTPUT PULSE CHARACTERISTICS

Model	Watt Second Adjustment Range	Single Pulse Welding Speed per Minute	Dual Pulse	Pulse Width Selection	Pulse Width (Max Energy into 1 Milliohm Load)		Rise Time (Max Energy into 1 Milliohm Load)		Maximum Pulse Height
					No Upslope	With Upslope	No Upslope	With Upslope	
125ADP	1-125 Ws	10Ws-140 35Ws-80 75Ws-55 125Ws-45	Yes	Very short	2.0ms	NA	0.65ms	NA	6.9 V
				Short	2.3ms	2.4ms	0.65ms	0.9ms	6.9 V
				Medium	2.5ms	2.8ms	0.85ms	1.4ms	6.3 V
				Long	3.9ms	4.7ms	1.2ms	2.8ms	4.5 V
300ADP	3-300 Ws	10Ws-520 50Ws-240 150Ws-140 300Ws-80	Yes	Very short	2.4ms	NA	0.9ms	NA	7.7 V
				Short	6.0ms	6.0ms	1.0ms	1.2ms	7.6 V
				Medium	8.0ms	8.2ms	1.5ms	2.8ms	5.8 V
				Long	11.2ms	12.2ms	1.6ms	3.3ms	4.6 V
1000ADP	10-999Ws	10Ws-170 50Ws-130 250Ws-65 500Ws-35 750Ws-17 999Ws-10	Yes	Very short*	2.4ms	NA	0.9ms	NA	7.7 V
				Short*	7.8ms	7.9ms	2.0ms	2.2ms	13.8 V
				Medium*	8.4ms	8.9ms	2.7ms	3.2ms	12.2 V
				Long*	11.7ms	14.4ms	3.7ms	4.7ms	8.8 V

* settable on the 1000ADP by the factory prior to shipment. To be shipped in a short pulse width configuration unless otherwise specified on order.

PHYSICAL CHARACTERISTICS

	125ADP	300ADP	1000ADP**
H x W x D inches (mm)	11.5 x 9.9 x 13.8 (293 x 252 x 350)	11.5 x 9.9 x 13.8 (293 x 252 x 350)	11.5 x 9.9 x 13.8 (293 x 252 x 350)
Weight lbs (Kg)	44 (20)	66 (30)	29 (13)

** uses external transformer. 14.3x9.0x10.8 inches (364 x 229 x 275mm) HxWxD, 135lbs (61Kg) weight.



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