

CD1000 DPM2 Welders

1,000ws Capacitive Discharge Spot Welder



Applications:

- Aerospace Welding
- Automotive Welding
- Honeycomb Tacking
- Cross Wire Welding
- Copper, Aluminum, Brass, and Steel thin Sheet and Wire
- Miscellaneous Resistive Welding Applications

Features:

- Dual Pulse operation removes surface inconsistencies and contaminants
- Single or Dual Pulse Operation
- Up to 120 welds/min
- Intuitive User Interface
- Thermal Protection Internal Monitoring
- Weld-Ready Audible Beeps



The CD1000 DPM2

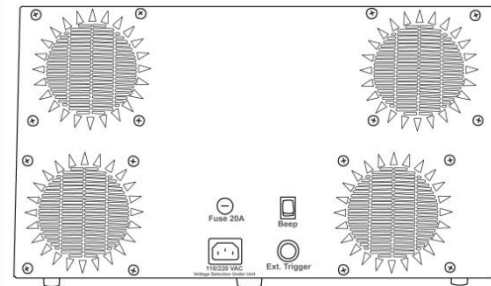
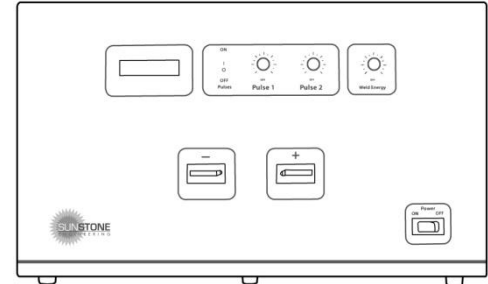
The 1,000ws Dual Pulse Industrial Capacitive Discharge Spot Welder provides a substantial amount of weld energy along with a fine range of power adjustment. The CD1000 DPM2 provides up to 1,000 watt seconds of energy for thicker, more conductive, and highly-resistive materials. For applications that may require additional weld energy, the unit can be upgraded to provide up to 1,100ws of energy. Weld energy can be adjusted by increments of 10ws making it extremely versatile for a variety of welding applications.

As with all Sunstone Engineering dual pulse spot welders, the 1,000 watt second spot welder produces clean, strong welds. Each pulse can be adjusted to control the amount of energy released, and can be turned on/off independently. Pulse one heats the weld area to eliminate surface contaminants and to seat the welding electrodes. Pulse two provides the energy to form the actual weld. Both pulses occur almost simultaneously with each weld initiation.

When combined with Sunstone's new line of weld heads, the CD1000 DPM2 can perform strong, precise, and repeatable welds. Contact Sunstone Engineering to learn more.

The CD1000 DPM2

1,000ws CD Spot Welder



Specifications

Table 1: Peak weld current shown by model number and external cabling gauge number (AWG). Four and eight AWG cabling is typically seen when using hand held attachments.

Model	1 AWG 1mOhm Load 4 feet	4 AWG 1.6mOhm Load 6 feet	8 AWG 4mOhm Load 6 feet
CD1000 DPM2	10250	7885	4100

*Minimum Load = 1mOh. Using a smaller load may damage the welder.

Table 2: Sunstone Dual Pulse Resistance Welder Technical Specifications.

Feature	CD1000 DPM2
Dual Pulse	Yes
Pulse 1 Energy Adjustment (% of set-point energy)	1% - 30%
Pulse 2 Energy Adjustment (% of set-point energy)	1% - 99%
Peak Current	10,250 Amps



The CD1000 DPM2

PRODUCT DATA SHEET

1,000ws CD Spot Welder

Table 3: Weld Repetition Rates per Minute.

Pulse Width (energy set-point)	CD1000 DPM2 Welds/Min (pulse energy)
10%	120 (100ws)
25%	76 (250ws)
50%	60 (500ws)
100%	36 (1000ws)

Table 4: Weld Pulse Characteristics.

Model	Min and Max Output	Pulse Width		Rise Time (to max Voltage)	Min Pulse Height	Max Pulse Height
		Min	Max			
CD1000 DPM2	1 ws - 1000 ws	0.12ms	32 ms	0.2 ms	3.5 V	20.5 V

Table 5: Physical Characteristics.

	CD1000 DPM2	
	Inches	cm
Height	11	28
Width	18.75	47.6
Depth	14	35.6
Weight	56 lbs	(26 kg)



**Sunstone Engineering
R&D Corporation**

1693 American Way Unit 5
Payson, UT 84651 USA
Phone: 801.658.0015