

# IDEALARC<sup>®</sup> DC-1000

The DC-1000 is a multiprocess DC arc welding power source for semiautomatic and automatic welding applications. It produces outstanding arc characteristics on both constant voltage and constant current processes. This provides great welding versatility in a single power source.

The DC-1000 is designed for submerged arc welding, and FCAW processes within the capacity of the machine, plus the capability of air carbon arc gouging up to 5/8" (16mm) diameter carbons. It produces outstanding welding performance with a single range full output control potentiometer.

The precise output of the DC-1000 enhances productivity and quality control when used with Lincoln LN-7, LN-8 and LN-9 semiautomatic wire feeders, NA-3, NA-5, and NA-5R automatic wire feeders, and the LT-56 and LT-7 tractors.

Factory installed ammeter and voltmeter is standard. Order appropriate model and product number.

## ADVANTAGE LINCOLN

- Solid state circuitry provides extra long life for repetitive welding applications.
- Full range output voltage control for easy operation and precise output control.

- Mode switch used to select the desired output characteristics for the process being used.
- Line voltage compensation for maintaining weld consistency, even with line voltage changes of  $\pm 10\%$ .
- Low profile case allows installation of the DC-1000 under a workbench and for stacking up to 2 machines to conserve floor space.
- Removable side panels for easy access to internal parts.
- Fan cooled with electronic and thermostatic protection from current overload and excessive temperatures.
- Windings and rectifiers protected against moisture and corrosive environments.
- Recessed front panel protects operating controls.
- Terminal strip and output studs for remote connections and cable.
- 500 amp output connections provide enhanced arc characteristics for submerged arc and MIG welding procedures.
- Fuse protected 115V wire feeder auxiliary power with 1000 volt-amp capacity.
- Power start/stop push button (NVR) switches with pilot light.
- 3 year warranty on parts and labor.
- Manufactured under a quality system certified to ISO 9002 requirements.



# TECHNICAL SPECIFICATIONS

Product Name	Rated DC Output <sup>(1)</sup> Amps/Volts/Duty Cycle <sup>(2)</sup>	Additional Rating Amps/Volts/Duty Cycle <sup>(2)</sup>	Output Range (continuous)	Weight (net)	Dimensions HxWxD
Idealarc DC-1000	1000A / 44V / 100%	1000A / 50V / 100%	VOLTS 16-46  AMPS 150-1300	821 lbs (372 kg)	30.7* x 22.5 x 39.0 in. (781 x 572 x 991mm) *includes lift bail

<sup>(1)</sup> NEMA Class I Rated Output.

<sup>(2)</sup> Based on a 10 minute period.

## ORDERING INFORMATION

Standard Voltage	Input Current at Rated DC Output	Product Number DC-1000 with Meters
230/460/3/60	193A / 96.5A	K1386-3
220/380/440/3/50/60	193A / 112A / 96.5A	K1387-3
380/500/3/50/60	112A / 85A	K1387-4
415/3/50/60	102A	K1387-6

## OPTIONS AVAILABLE

### Remote Output Control

For remote adjustment of output. Consists of a control box with 28 ft. (8.5m) of four conductor cable for terminal strip connection. **Order K775.**

### Paralleling Kit

Permits paralleling of two DC-1000's for welding currents of up to 2000 amps, 100% duty cycle. **Order S20428.**

### 115V/42V Transformer Kit

Provides a way to use the LN-10 or DH-10 wire feeder on a DC-1000 that has a 115V AC available on the terminal strip. **Order K1520-1.**

#### Customer Assistance Policy

The business of The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for advice or information about their use of our products. We respond to our customers based on the best information in our possession at that time. Lincoln Electric is not in a position to warrant or guarantee such advice, and assumes no liability, with respect to such information or advice. We expressly disclaim any warranty of any kind, including any warranty of fitness for any customer's particular purpose, with respect to such information or advice. As a matter of practical consideration, we also cannot assume any responsibility for updating or correcting any such information or advice once it has been given, nor does the provision of information or advice create, expand or alter any warranty with respect to the sale of our products.

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.



**THE  
LINCOLN ELECTRIC  
COMPANY**

**Local Sales and Service through Global  
Subsidiaries and Distributors**

Cleveland, Ohio 44117-1199 U.S.A.

TEL (216) 481-8100

FAX (216) 486-1751

WEB SITE: [www.lincolnelectric.com](http://www.lincolnelectric.com)

**CC/CV Welders  
E5.50 6/00**

DISTRIBUTED BY: