

# Idealarc® DC-1000

If your application requires pure welding power combined with multi-process flexibility, then the DC-1000, with 1300 amps of smooth DC output, is your best investment.

Designed for semiautomatic and automatic welding, the precise control of the DC-1000 delivers superior high amperage MIG, flux-cored, submerged arc welding and air carbon arc gouging with up to 5/8" (15.9 mm) diameter carbons.

### Processes

MIG, Flux-Cored, Submerged Arc, Gouging



Output



Input



### Advantage Lincoln

- 500 amp output connections provide enhanced arc characteristics for low amperage submerged arc and MIG welding procedures.
- Single range control for precise output control and easy operation.
- Standard analog ammeter and analog voltmeter.
- Use the mode switch to select the desired output characteristics for the process being used—CV Submerged Arc, CV Innershield®, CC Submerged Arc.
- Power start/stop push button (NVR) switches with pilot light.
- Fuse protected 115V wire feeder auxiliary power with 1000 volt-amp capacity.
- Terminal strip and output studs for remote connections and cable.
- 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.
- Line voltage compensation maintains weld consistency, even with line voltage changes of  $\pm 10\%$ .
- Electronic and thermostatic protection from current overload and excessive temperatures.
- Internal components, including windings, rectifiers and circuit boards, are coated to protect against the effects of moisture and corrosion.
- Recessed front panel protects operating controls.
- Three-year warranty on parts and labor.
- Seven-year warranty on the power rectifier.
- Manufactured under a quality system certified to ISO 9001 requirements and ISO 14001 environmental standards.

### TECHNICAL SPECIFICATIONS

| Product Name | Product Number | Input Power         | Rated Output Current/Voltage/Duty Cycle | Input Current @ Rated Output | Output Range         | Dimensions H x W x D inches (mm)         | Net Weight lbs. (kg) |
|--------------|----------------|---------------------|---|------------------------------|----------------------|--|----------------------|
| DC-1000      | K1386-3        | 230/460/3/60        | 1000A / 44V / 100%                      | 193/96.5A                    | 16-46 V<br>150-1300A | 30.7 x 22.25 x 39.0<br>(781 x 567 x 991) | 821 (372)            |
|              | K1387-3        | 220/380/440/3/50/60 |   | 193/112/96.5A                |                      |  |                      |
|              | K1387-4        | 380/500/3/50/60     |   | 112/85A                      |                      |  |                      |
|              | K1387-6        | 415/3/50/60         |   | 102A                         |                      |  |                      |

## RECOMMENDED OPTIONS



**Paralleling Kit**  
Permits paralleling of two power sources.  
**Order K1897-1**



**42 Volt Transformer Kit**  
Transforms 115V AC to 42V AC for use with wire feeders requiring 42V AC input power. Terminal strip connection.  
**Order K1520-1**



**Remote Output Control**  
Consists of a control box with choice of two cable lengths. Permits remote adjustment of output. 6-pin connection.  
**Order K857** for 25 ft. (7.6m)  
**Order K857-1** for 100 ft. (30m)



**Control Cable Adapter Kit-6 Pin**  
Adapts 6-pin MS-type plug connection to terminal strip on power source.  
**Order K843**



**Control Cable Adapter Kit-14 Pin**  
Adapts 14-pin MS-type plug connection to terminal strip on power source.  
**Order K1798**

## IDEALARC DC-1000 ORDER FORM

| PRODUCT DESCRIPTION                                  | ORDER NUMBER          | QUANTITY | PRICE |
|--|-----------------------|----------|-------|
| DC-1000 230/460/3/60                                 | K1386-3               |          |       |
| DC-1000 220/380/440/3/50/60                          | K1387-3               |          |       |
| DC-1000 380/500/3/50/60                              | K1387-4               |          |       |
| DC-1000 415/3/50/60                                  | K1387-6               |          |       |
| <b>RECOMMENDED GENERAL OPTIONS</b>                   |                       |          |       |
| Paralleling Kit                                      | K1897-1               |          |       |
| 42 Volt Transformer Kit                              | K1520-1               |          |       |
| Remote Output Control, 25 ft. (requires K843)        | K857                  |          |       |
| Remote Output Control, 100 ft. (requires K843)       | K857-1                |          |       |
| Control Cable Adapter Kit – 6 pin to terminal strip  | K843                  |          |       |
| Control Cable Adapter Kit – 14 pin to terminal strip | K1798                 |          |       |
| <b>RECOMMENDED WIRE FEEDER OPTIONS</b>               |                       |          |       |
| LN-9 and LN-9 GMA                                    | See Publication E8.50 |          |       |
| NA-3   | See Publication E9.10 |          |       |
| NA-5   | See Publication E9.30 |          |       |
| LT-7   | See Publication E9.70 |          |       |
|  | <b>TOTAL:</b>         |          |       |

### 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.

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