

# Idealarc® DC-600



## Rugged Multi-Process Power for Industrial Manufacturing

If your operations include semiautomatic manufacturing or fabrication, your best welding power source selection may be the Lincoln Idealarc® DC-600. Rugged construction, simple controls and plenty of amperage for heavy duty applications on thick steel or other materials make this welder a sound investment. Add the outstanding traditional SCR rectifier arc action delivering high quality, attractive welds and your operators will agree – it's hard to go wrong with an Idealarc® DC-600.

### Processes

Stick TIG MIG Flux-Cored Submerged Arc Gouging

### Advantage Lincoln

- 115V, 15 amps, duplex auxiliary power receptacle (60Hz models) makes it easy to power lights, grinders and other shop tools at your work station.
- Full range output voltage control for easy operation and precise control.
- Standard analog ammeter and voltmeter.
- Mode switch for selecting desired output characteristics.
- Windings and rectifiers protected against moisture and corrosive environments.
- Flat-top case with a small footprint can be placed under a workbench or stacked up to 3 high on top of each other.
- Manufactured under a quality system certified to ISO 9001 requirements and ISO 14001 environmental standards.
- Three-year warranty on parts and labor.
- Seven-year warranty on the power rectifier.

### Description

Output   Input  

### Recommended General Options

Multi-Process Switch, Undercarriage, Paralleling Kit

### Recommended Stick Options

Accessory Kit, Remote Output Control, Remote Control Cable Adapter

### Recommended TIG Options

Pro-Torch™ TIG Torches, TIG Module, Control Cable, Control Cable Extension, Docking Kit, Hand Amptrol, Foot Amptrol, Amptrol Adapter Kit, Water Valve Kit, Deluxe Adjustable Gas Regulator and Hose Kit

### Recommended Wire Feeder Options

LF-72, LF-74, LN-742, LN-8, LN-9, LN-9 GMA, LN-10, DH-10, LN-15, LN-23P, LN-25, LN-35, Cobramatic®, NA-3, NA-5, LT-7

### Order

|          |   |                  |
|----------|---|------------------|
| K1288-17 | Idealarc DC-600                           | 230/460/3/60     |
| K1288-18 | Idealarc DC-600                           | 230/460/3/60     |
| K1288-22 | w/multi-process switch<br>Idealarc DC-600 | 230/460/575/3/60 |

### 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 in. (mm)           | Net Weight lbs (kg) |
|------------------|----------------|------------------|---|------------------------------|------------------------|---|---------------------|
| Idealarc® DC-600 | K1288-17       | 230/460/3/60     | 600A/44V/100%<br>680A/44V/60%           | 108/54A                      | CV:<br>70-850A, 13-44V | 30.7 x 22.2 x 38.0<br>(781 x 565 x 965) | 522<br>(237)        |
|                  | K1288-18       |                  |   | 108/54/43.2A                 | CC:<br>90-850A, 24-42V |   |                     |
|                  | K1288-22       | 230/460/575/3/60 |   |                              |                        |   |                     |

## FEATURES

### PERFORMANCE

- The Idealarc® DC-600 is a multiprocess DC arc welding power source that produces outstanding arc characteristics on both constant voltage and constant current processes. This provides great welding versatility in a single power source.
- The Idealarc DC-600 is designed for GMAW (MIG), FCAW, and submerged arc welding processes within the capacity of the machine, plus the capability of stick, and air carbon arc gouging up to 3/8" (10mm) diameter. It produces outstanding performance with a single range continuous control potentiometer.

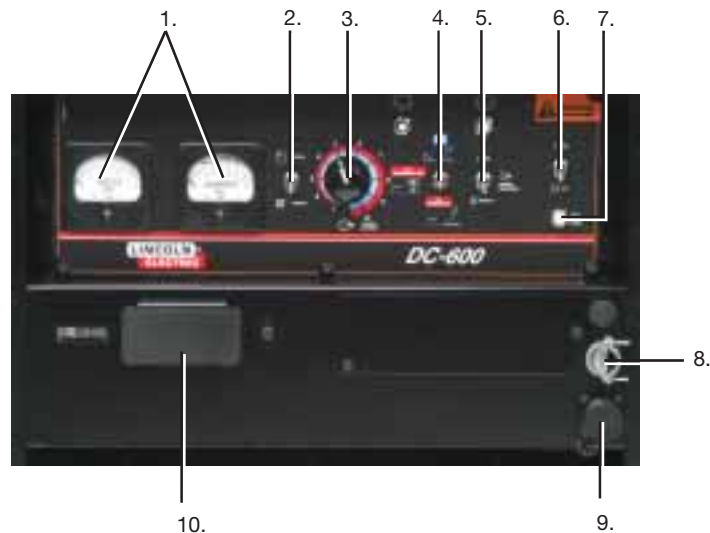


### FEATURES

- 3-position field or factory installed Multi-Process Switch option allows quick change from electrode positive or negative semiautomatic/automatic wire feed welding to stick, TIG or air carbon arc gouging.
- Air carbon arc gouge with up to 3/8" (10mm) diameter carbons.

### Key Controls

1. Ammeter/Voltmeter
2. Local/Remote Output Control
3. Output Control Potentiometer
4. Mode Selection Switch
5. Weld Terminals On or Remotely Controlled
6. On/Off Switch
7. Power Source Pilot Light
8. Strain Relief for Terminal Strip Connection
9. 14-Pin MS-Style Connector for Wire Feeder Connection
10. 115 VAC, 15A Covered Outlet



### QUALITY AND RELIABILITY

- Fan-cooled with electronic and thermostatic protection from current overload and excessive temperatures.
- 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.

**GENERAL OPTIONS**



**Multi-Process Switch**  
3-position switch allows quick and easy change from electrode positive or negative semiautomatic/wire feed welding to stick or air carbon arc gouging.  
**Order K804-1**



**Undercarriage**  
Platform undercarriage with mountings for two gas cylinders at rear of welder.  
**Order K842**



**Paralleling Kit**  
Permits paralleling of two power sources.  
**Order K1611-1 (For Idealarc® DC-600 Above Code 10500)**  
**Order K1897-1 (For Idealarc DC-600 Below Code 10500)**



**STICK OPTIONS**



**Accessory Kit**  
For stick welding. Includes 35 ft. (10.7m) 2/0 electrode cable with lug, 30 ft. (9.1m) 2/0 work cable with lugs, headshield, filter plate, work clamp and electrode holder.  
**Order K704**



**Remote Output Control**  
For remote output of welding voltage. Consists of control box with 25 or 100 ft. (7.6 or 30m) of four conductor cable and 6 pin MS-type connector.  
**Order K857 for 25 ft. (7.6m)**  
**Order K857-1 for 100 ft. (30m)**



**Remote Control Cable Adapter**  
Y connection adapter for connecting K857 Remote Voltage Control (6 pin plug connection) and wire feeder input cable (14 pin plug connection) to Idealarc DC-600 14 pin receptacle.  
**Order K864**

**TIG OPTIONS**



**Pro-Torch TIG Torches**  
Light and easy to use, these torches feature flexible head models that give you the power of maximum versatility and maneuverability. A molded, knurled handle gives you a sure grip so you can focus on the weld. Available in either air-cooled or water-cooled designs.  
**See publication E12.150**

**TIG OPTIONS, CONT.**



**TIG Module**  
Portable, high frequency unit with gas valve for TIG welding. Rated at 300 amps/60% duty cycle.  
**Order K930-2**



**Control Cable**  
Connects TIG Module to power source.  
**Order K936-1 for 9-pin to 14-pin**



**Control Cable Extension**  
Allows the TIG Module to be operated at distances up to 200 ft. (61m) from the power source. Available in 45 ft. (13.7m) sections.  
**Order K937-45**



**Docking Kit**  
Provides a means to “dock” the TIG Module on top of a flat-roofed power source, or any other flat surface measuring at least 10 x 15 in. (254 x 381mm). It includes a latch and provisions for a user-supplied padlock to lock the TIG Module in place.  
**Order K939-1**



**Hand Amptrol**  
Provides 25 ft. (7.6m) of remote current control for TIG welding. (6 pin plug connection). Velcro straps secure torch.  
**Order K963-3**



**Foot Amptrol**  
Provides 25 ft. (7.6m) of remote output control for TIG welding. (6 pin plug connection).  
**Order K870**



**Amptrol Adapter Kit**  
Adapts Amptrol's 6-pin MS-type plug connection to terminal strip on power source.  
**Order K843**



**Water Valve Kit**  
For use with water-cooled TIG torch. Installs inside of TIG Module.  
**Order K844-1**



**Deluxe Adjustable Gas Regulator and Hose Kit**  
Accommodates CO<sub>2</sub>, argon, or argon-based gas cylinders. Includes a cylinder pressure gauge, dual scale flow gauge and 4.3 ft. (1.3m) gas hose.  
**Order K586-1**

**IDEALARC® DC-600 ORDER FORM**

| PRODUCT DESCRIPTION                                   | ORDER NUMBER                | QUANTITY | PRICE |
|---|-----------------------------|----------|-------|
| IDEALARC DC-600 (230/460/3/60)                        | K1288-17                    |          |       |
| IDEALARC DC-600 W/MULTI-PROCESS SWITCH (230/460/3/60) | K1288-18                    |          |       |
| IDEALARC DC-600 (230/460/575/3/60)                    | K1288-22                    |          |       |
| <b>RECOMMENDED GENERAL OPTIONS</b>                    |                             |          |       |
| Multi-Process Switch                                  | K804-1                      |          |       |
| Undercarriage   | K842                        |          |       |
| Paralleling Kit (Above Code 10500)                    | K1611-1                     |          |       |
| Paralleling Kit (Below Code 10500)                    | K1897-1                     |          |       |
| <b>RECOMMENDED STICK OPTIONS</b>                      |                             |          |       |
| Accessory Kit   | K704                        |          |       |
| Remote Output Control, 25 ft.                         | K857                        |          |       |
| Remote Output Control, 100 ft.                        | K857-1                      |          |       |
| Remote Control Cable Adapter                          | K864                        |          |       |
| <b>RECOMMENDED TIG OPTIONS</b>                        |                             |          |       |
| Pro-Torch™ TIG Torches                                | Request publication E12.150 |          |       |
| TIG Module  | K930-2                      |          |       |
| Control Cable   | K936-1                      |          |       |
| Control Cable Extension, 45 ft. (13.7m)               | K937-45                     |          |       |
| Docking Kit   | K939-1                      |          |       |
| Hand Amptrol®   | K963-3                      |          |       |
| Foot Amptrol  | K870                        |          |       |
| Amptrol Adapter Kit                                   | K843                        |          |       |
| Water Valve Kit                                       | K844-1                      |          |       |
| Deluxe Adjustable Gas Regulator and Hose Kit          | K586-1                      |          |       |
| <b>RECOMMENDED WIRE FEEDER OPTIONS</b>                |                             |          |       |
| LF-72, LF-74  | See Publication E8.12       |          |       |
| LN-742 Industrial Wire Feeder                         | See Publication E8.20       |          |       |
| LN-8 Industrial Wire Feeder                           | See Publication E8.30       |          |       |
| LN-9 & LN-9 GMA Industrial Wire Feeder                | See Publication E8.50       |          |       |
| LN-10 Advanced 4 Drive Roll Wire Feeder               | See Publication E8.200      |          |       |
| DH-10 Dual Head Version of LN-10                      | See Publication E8.200      |          |       |
| LN-15 Portable Wire Feeder                            | See Publication E8.60       |          |       |
| LN-23P Portable Wire Feeder                           | See Publication E8.90       |          |       |
| LN-25 Portable Wire Feeder                            | See Publication E8.100      |          |       |
| LN-35 Portable Wire Feeder                            | See Publication E8.110      |          |       |
| Cobramatic Deluxe Wire Feeder                         | See Publication E8.300      |          |       |
| NA-3 Automatic Wire Feeder                            | See Publication E9.10       |          |       |
| NA-5 Automatic Wire Feeder                            | See Publication E9.30       |          |       |
| LT-7 Automatic Wire Feeder                            | 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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