

DC-600



For Multi-Process Welding

DC-600



The DC-600 multiprocess DC arc welding power source has always performed with superior ability. Now, the enhanced generation of the DC-600 provides some new additions and the same superior arc that you have come to expect from Lincoln Electric.

Designed for GMAW (MIG), FCAW and submerged arc welding processes, this machine produces outstanding welding performance with a single range full output control potentiometer. The DC-600 also has the added capability of stick and air carbon arc gouging up to 3/8" (10mm) diameter carbons.

With a 14-pin Amphenol and terminal strip on the case front of the DC-600, productivity and set-up are instantly improved when you connect a Lincoln LN-7, LN-7 GMA, LN-8, LN-9, LN-9 GMA, LN-10, DH-10, and LN-25 semiautomatic wire feeders, the NA-3, NA-5 and NA-5R automatic wire feeders, and the LT-56 and LT-7 tractors.

Additional enhancements include: control panel simplifications, an additional 115V power receptacle to run tools right from the DC-600 and improved air flow for cooler operation.

Factory or field installed Multi-Process Switch option for versatility in your welding applications is available. This three position switch allows quick and easy change from electrode positive or negative semiautomatic/automatic wire feed welding to stick or air carbon arc gouging. Order appropriate model and product number.

Overall, you'll be impressed with the new additions to an already first-class power source - the DC-600.

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.
- Standard ammeter/voltmeter.
- Mode switch used to select the desired output characteristics for the process being used.
- Output terminals on/remote switch for easier selection of welding processes.
- 115V auxiliary power receptacle operates grinders, drills and fans on 15A duplex receptacle.
- Line voltage compensation for maintaining weld consistency, even with line voltage changes of $\pm 10\%$.
- Low profile case allows installation of the DC-600 under a workbench and for stacking up to 3 machines high 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.
- Function lights built into the printed circuit boards speed diagnostics.
- Recessed front panel protects operating controls.
- 14 pin Amphenol and terminal strip for remote wire feeder connections. 42V AC and 115V AC available.
- Fuse protected 42V and 115V wire feeder auxiliary power.
- Power on/off toggle switch 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 ⁽¹⁾ Amps/Volts/Duty Cycle | Output Range | Weight (net) | Dimensions HxWxD |
|--------------|---|---|----------------------|--|
| DC-600 | 600A / 44V / 100% 680A / 44V / 60% | Volts: 13-44 (CV), 24-42 (CC) Amps: 70-780 (CV), 90-780 (CC) | 522 lbs. (237 kg) | 30.7 x 22.2 x 38.0 in. (781 x 565 x 965 mm) |

⁽¹⁾ NEMA Class I Rated Output / Based on a 10 min. period.

ORDERING INFORMATION

| Standard Voltage | Input Current at Rated DC Output 100% Duty Cycle | Product Number |
|---|--|----------------------|
| 230/460/3/60 | 108/54 | K1288-17 |
| 230/460/3/60 w/ Multi-Process Switch | 108/54 | K1288-18 |
| 220/380/440/3/50/60 380/500/3/50/60 | 116/67/58 67/51 | K1365-23 K1365-24 |

SYSTEM SELECTION

Typical MIG welding systems.

DC-600 / LN-7 GMA System

Our most popular MIG and flux-cored welding system!

DC-600 power sourceK1288-17
LN-7 GMA (Two Roll) wire feeder . .K440-2
Input Cable – 10 ft.K594-10
.052 Drive RollKP653-052S
Universal StandK1524-1
Magnum® 400 Gun & Cable asbly .K471-4
Gun Connector KitK466-1

DC-600 / LN-742 System

Best for applications where more process control is required – for arc starting, welding and crater control!

DC-600 power sourceK1288-17
LN-742 (Two Roll) wire feeder . . .K617-2
Input Cable – 10 ftK592-10
.045 Drive RollKP653-052S
Universal StandK1524-1
Swivel PlatformK1557-1
Magnum 400 Gun & Cable asbly . .K471-2
Gun Connector KitK466-1

DC-600/ LN-10 System

Where premium welding performance and control is demanded – this system delivers!

DC-600 power sourceK1288-17
LN-10 wire feederK1559-1
Input Cable – 10 ft.K1502-10
.045 Drive RollKP1505-045S
Swivel PlatformK1557-1
Magnum 400 Gun & Cable asbly . .K471-21⁽¹⁾

DC-600 / DH-10

For maximum welding flexibility – select the DH-10 dual feeder. Weld with two different types and sizes of wire – with two different welding procedures.

DC-600 power sourceK1288-17
DH-10 wire feederK1499-1
Input Cable – 10 ft.K1502-10
.045 Drive RollK1505-045S⁽²⁾
Magnum 400 Gun & Cable asbly . .K471-21^{(1) (2)}

DC-600 / COBRAMATIC® System

For aluminum welding select the industries best aluminum feeding system – Cobramatic.

DC-600 power sourceK1288-17
Cobramatic wire feederK1587-1
.035 Drive RollKP1594-035
Cobra Gold Gun & Cable asblyK1589-2

(1) Fully assembled, no gun connector required.

(2) Two required.

OPTIONS AVAILABLE

Multi-Process Switch

Recommended when using the DC-600 for both semi-auto welding and stick/air carbon arc welding.

Order K804-1.



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.

Remote Voltage Control

Provides 25 ft. or 100 ft. (7.6m or 30m) of remote output control (6 pin plug connection). Requires K864 Remote Control Cable Adapter.

For 25 ft. (7.6m), Order K857

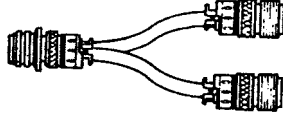
For 100 ft. (30m), Order K857-1.



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 DC-600 14 pin receptacle.

Order K864.



Undercarriage

A mounting frame and three wheels for hand moving. Order K817P.

Undercarriage

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

TIG Module

Supplies high frequency for superior starting, contactor control, remote control capability and a gas valve for DC TIG welding. Order K930-2.

A 2 ft. (0.6m) control cable is required to connect the 9-pin socket on the TIG Module to the terminal strip at the DC-600. Order K936-2.

Paralleling Kit

Permits paralleling of two DC-600's for welding currents of up to 1200 amps, 100% duty cycle. The "master" DC-600 controls both paralleled machines. (New machines with production code numbers later than 10500) Order K1611-1.

Water Valve

For use with TIG Module. Shuts off water flow when the arc is extinguished when using Magnum® water-cooled TIG torches. Order 844-1.

Control Cable Extension

Allows the TIG Module to be operated at up to 22.5 -45 ft. (6.9-13.7m) from DC-600. Connects between the 2 ft. (0.6m) control cable and the TIG Module.

22.5 ft. Order K937-22.5

45 ft. 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.

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 of 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 this type of fabrication methods and service requirements.



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