

CV-655

Processes

MIG, Flux-Cored, Submerged Arc,
Gouging

Product Number

See back for complete specs

Input Power

Dependent on model

Input Current at Rated Output

Dependent on model

Rated Output Current/Voltage/Duty Cycle

650A/44V/100%

815A/44V/60%

Output Range

70-815A 13-44V

Max. OCV: 48V

Weight/Dimensions (H x W x D)

652 lbs (296 kg)

27 x 22 x 38 in

(686 x 559 x 965 mm)

Dependable High Output Wire Welding

Energy efficiency, reliability and exceptional performance are what set the CV-655 apart in its class. Designed primarily for heavy-duty applications, the CV-655 is an outstanding choice for MIG and flux-cored welding on mild steel, stainless steel, aluminum and alloys. This sturdy, powerful DC power source also handles CV semiautomatic submerged arc welding and arc gouging with ease. Equipped with electronic and thermostatic protection, PC boards with built-in diagnostics and solid state contactors, the CV-655 is built to last.

FEATURES

- ▶ **Calibrated output control** - Lets operator accurately regulate power levels.
- ▶ **Line voltage compensation** - Maintains weld consistency, even with line voltage changes of $\pm 10\%$.
- ▶ **115-volt duplex receptacle** - Provides 20 amps of auxiliary power.
- ▶ **Separate output studs** - Allow the operator to select high or low inductance.
- ▶ **Panel switches** - Allow the operator to change settings at the power source or wire feeder.
- ▶ **Solid state circuitry** - Provides extra long life during repetitive applications.

APPLICATIONS

- ▶ Transportation
- ▶ Heavy Equipment
- ▶ Structural Steel
- ▶ Railroad
- ▶ Furniture



Shown K1480-1

INPUT



OUTPUT



Two Year Extended
Warranty Available in
U.S.A. and Canada.



PERFORMANCE

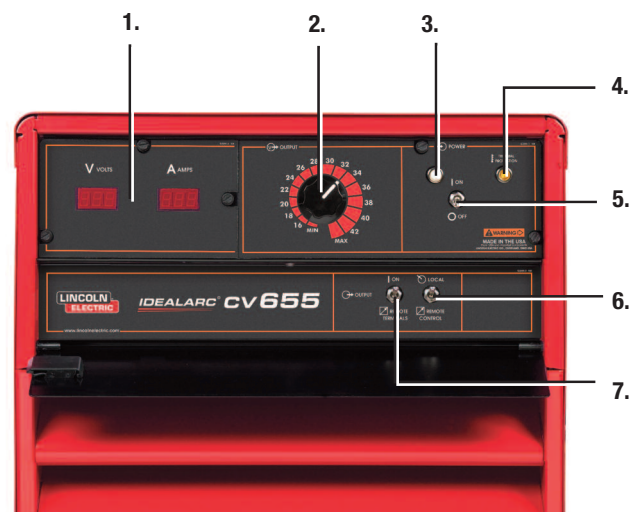
- Provides line voltage compensation for maintaining weld consistency, even with changes of $\pm 10\%$.
- For heavy duty MIG and flux-cored applications.
- Submerged arc welding with up to 5/64 in (2.0 mm) diameter electrodes.
- Arc gouging up to 3/8 in (10 mm) carbons.

FEATURES

- Quick, simple 14-pin MS-type (Amphenol) wire feeder connection.
- Low flat-top case can be placed under a workbench or stacked on top of each other for smaller footprint.
- “Cold” electrode with a solid state contactor when the trigger is released for added safety.
- Thermal trip indicator light.

KEY CONTROLS

1. Optional Voltmeter and Ammeter
2. Output Voltage Control
3. Pilot Light
4. Thermal Protection Light
5. Input Power On/Off Switch
6. Local/Remote Control Switch
7. Output Terminals On/Remote Switch



QUALITY AND RELIABILITY

- Electronic and thermostatic protection from current overload or excessive temperatures.
- PC boards have built-in diagnostic routines for quick and easy troubleshooting.
- Circuit boards are protected with a specially insulated coating to extend life and ensure reliable performance.
- Solid state circuitry provides extra long life during repetitive applications.
- Three-year warranty on parts and labor.
- Manufactured under a quality system certified to ISO 9001 requirements and ISO 14001 environmental standards.

CV-655 / LF-72 Heavy Duty Wire Feeder

- CV-655 Power Source K1480-1
- LF-72 Heavy Duty K2327-6
- 600 Amp Weld Power Cable – 10 ft. K1842-10⁽²⁾
- Work Clamp K910-2
- Harris® Flowmeter Regulator and Gas Hose K586-1

CV-655 / LN-10 Wire Feeder

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

- CV-655 Power Source K1480-1
- LN-10 wire feeder K1559-3
- Control Cable – 10 ft. K1501-10
- .045 Drive Roll KP1505-045S
- Swivel Platform KP557-1
- Magnum 400 Gun & Cable Assembly K471-21⁽¹⁾
- 600 Amp Weld Power Cable – 10 ft. K1842-10⁽²⁾
- Work Clamp K910-2
- Harris® Flowmeter Regulator and Gas Hose K586-1

CV-655 / DH-10 Wire Feeder

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

- CV-655 Power Source K1480-1
- DH-10 wire feeder K1499-3
- Control Cable – 10 ft. K1501-10
- .045 Drive Roll KP1505-045S⁽²⁾
- Magnum 400 Gun & Cable Assembly K471-21⁽¹⁾⁽²⁾
- 600 Amp Weld Power Cable – 10 ft. K1842-10⁽²⁾
- Work Clamp K910-2
- Harris® Flowmeter Regulator and Gas Hose K586-1

⁽¹⁾ Fully assembled. No gun connector required.

⁽²⁾ Two required.

RECOMMENDED ACCESSORIES TO EXPAND MACHINE CAPABILITIES

GENERAL OPTIONS



Digital Meter Kit
Displays amps and volts.
Order K1482-1



Air Filter Kit
Mounts on the front of the machine and uses cleanable, all metal air filters. Not compatible with dual process switch.
Order K1486-1



Dual Process Switch
Mounts on front of machine and provides polarity change or electrical isolation. Great for arc gouging applications and where two separate feeders require different output polarity or inductance settings. Not compatible with air filter.
Order K1528-1



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. (7.6 m).
Order K857-1 for 100 ft. (30 m).



Remote Control Adapter
Y connection adapter for connecting K857 Remote Output Control (6 pin plug connection) and wire feeder input cable (14 pin plug connection) to power source 14 pin receptacle.
Order K864



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



All-Terrain Undercarriage
For moving by hand. Overall width 27 in. (0.7 m). Includes heavy-duty puncture-resistant (inner tube and sealant) tires.
Order K1737-1

PRODUCT SPECIFICATIONS

Product Name	Product Number	Input Power	Rated Output Current/Voltage/Duty Cycle ⁽¹⁾	Input Current @ Rated Output	Output Range	H x W x D inches (mm)	Net Weight lbs. (kg)
CV-655	K1480-1	230/460/3/60	650A/44V/100%	94/47A	70-815A	27 x 22 x 38 (686 x 559 x 965)	652 (296)
	K1480-5	575/3/60	815A/44V/60%	38A	13-44V		
	K1481-1	230/400/3/50/60		94/54A	Max. OCV:		
	K1481-5	415/3/50/60		52A			

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

For best welding results with Lincoln Electric equipment, always use Lincoln Electric consumables.
Visit www.lincolnelectric.com for more details.

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 information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

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