

Processes

Stick, TIG, MIG, Flux-Cored,
Submerged Arc, Gouging

Product Number

K1365-23 220/380/440V
K1365-28 380-415V with VRD

See back for complete specs

Input Power (Voltage/Phase/Hertz)

K1365-23: 220/380/440V/3/50/60
K1365-28: 380-415V/3/50/60

**Input Current at Rated Output
(100% Duty Cycle)**

220V: 116A 440V: 58A
380V: 67A 415V: 62A

Rated Output

600A/44V/100%
680A/44V/60%

Output Range

CV: 70A/13V - 780A/44V
CC: 90A/24V - 780A/44V

Weight/Dimensions (H x W x D)

237kg/ 781 x 567 x 988 mm

ADVANTAGE

- ▶ **Full range output voltage control** for easy operation and precise control.
- ▶ **Standard analog ammeter and voltmeter.**
- ▶ **VRD (Voltage Reduction Device)** reduces OCV (open circuit voltage) when not welding for added safety (K1365-28 only).
- ▶ **Mode switch** for selecting desired output characteristics.
- ▶ **Flat-top case with a small footprint** can be placed under a workbench or stacked up to 3 high on top of each other.
- ▶ **Windings and rectifiers** are protected against moisture and corrosive environments.
- ▶ **Seven-year warranty** on power rectifier.

INPUT**OUTPUT**

Industrial DC

Multi-Process Welders

Rugged construction, simple controls and a 100% duty cycle output rating make these machines a sound investment for heavy duty shop applications. 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.

WHAT IS VRD™?

The VRD (Voltage Reduction Device) provides an additional measure of safety, especially when working in an environment with a higher risk of electrical shock such as wet areas and hot, humid, sweaty conditions. The VRD reduces the OCV (open circuit voltage) at the welding output terminals while not welding to less than 2 volts DC. Indicator lights will also signal when OCV during welding is above or below 30 volts DC.

Use of VRD does not degrade the DC-600 machine rating or the ability to drive current through cables up to 200 ft. (61 m). No new welding techniques are required. The internal system does not require separate modules to operate (available on select models).

Idealarc® DC-600

KEY CONTROLS

1. Local/Remote Switch
2. Output Control
3. Welding Mode Switch
4. Circuit Breakers
5. Weld Terminals On or Remotely Controlled
6. On/Off Switch
7. Power Source Pilot Light
8. Ammeter/Voltmeter
9. VRD (select models)



RECOMMENDED ACCESSORIES

GENERAL OPTIONS



Multi-Process Switch
3-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 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. (Cannot be used with VRD™ models) requires 2 x welding leads to parallel welding output.
Order K1611-1 for Idealarc® DC-600 above code 10500
Order K1897-1 for Idealarc® DC-600 below code 10500



Welding Fume Extractors
Lincoln offers a wide variety of welding fume extraction environmental system solutions, ranging from portable systems easily wheeled around the shop to shop-wide central systems servicing many dedicated welding stations.
Request Publication E13.40



Remote Output Control
Provides 25 ft. or 100 ft. (7.6 m or 30 m) of remote output control (6-pin plug connection). Requires K864 Control Cable Adapter.
Order K857 25 ft. (7.6 m)
Order K857-1 100 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 DC-600 14-pin receptacle.
Order K864



Terminal Strip Adaptor
Adaptor cable for 14-pin cable to terminal strip. Required when connecting 115V wire feeders is LN-8.
Order K1798



TIG OPTIONS

TIG Module
Supplies high frequency for superior starting, contactor control, remote control capability and a gas valve for TIG welding. (Cannot be used with VRD™ models).
Order K930-2



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



Docking Kit
Allows you 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 381 mm). Includes a latch and provisions for a user-supplied padlock to lock the TIG Module in place.
Order K939-1



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

PRODUCT SPECIFICATIONS

Product Name	Product Number	Input Power	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output 100%	Output Range	H x W x D mm	Net Weight kg
Idealarc® DC-600	K1365-23	220/380/440/3/50/60	600A/44V/100% 680A/44V/60%	116/67/58A	CV: 70A/13V - 780A/44V	781 x 567 x 988	237
Idealarc® DC-600 with VRD™	K1365-28	380-415/3/50/60		67-62A	CC: 90A/24V - 780A/44V		

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

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