Power Wave® C300

Processes

Stick, DC TIG, Pulsed DC TIG, MIG, Pulsed MIG, Flux-Cored

Product Number

K2675-2 Power Wave® C300

K2774-2 Power Wave® C300 Steel Ready-Pak®

K2774-4 Power Wave® C300 Multi-Process

Educational Ready-Pak®

See back for complete specs

Input Voltage

3 Ph 50/60: 208/220-230/380-415/460/575

1 Ph 50/60: 208/220-230

Input Current @ Rated Output

3 Ph / 40% Duty Cycle: 30/28/16/14/11A 1 Ph / 40% Duty Cycle: 53/48/29

Output Range

5-300 amps

Wire Feed Speed Range 50-700 ipm

Rated Output 300A/29V/40% 250A/27V/100%

Weight 100 lbs. (47.6 kg)

Dimensions $(H \times W \times D)$ 18.8 x 14 x 27.4 in. (478 x 356 x 696 mm)

Portable, Powerful, **Compact. One Machine Does it All!**

The Power Wave® C300 is an advanced compact multi-process power source with an integrated wire feeder. It's ideal for welding on a wide variety of materials, including aluminum, stainless, and nickel materials where arc performance is critical.

FEATURES

- **PowerConnect™ Technology** (Patent-Pending) - Automatically adjusts to input power from 200-600V, 50 or 60 Hz, single phase or three phase. Welding output remains constant through the entire input voltage range.
- Tribrid™ Power Module Exceptional welding performance with high power factor and efficiency.
- CheckPoint™ A cloud-based data collection tool allows customers to view and analyze welding data on almost any device - desktop, laptop, iPhone® or iPad®, Blackberry® and others. Track equipment usage, store weld data, configure fault limits and more.
- **Compact and Durable Case IP23** rated to withstand harsh environments.
- Integrated TIG Torch and Spool Gun **Solenoid** – Makes for fast changeovers to TIG welding or spool gun operation.

APPLICATIONS

- Construction
- Fabrication
- Automotive
- Production
- Welder Training



INPUT









WHAT'S INCLUDED

K2675-2 Base Unit Includes:

- Drive Roll Kit. .035 in./.045 in. (0.9/1.2 mm)
- Input Cord, 10 ft. (3.0 m)
- Work Lead and Clamp, 10 ft. (3.0 m)





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





Educational Ready-Pak®

FRONT VIEW

- Continuous Wire Feed Speed (WFS)/ Amps Control – Adjust WFS for MIG and Flux-Cored; adjust amps for Stick or TIG.
- **2a. Welding Mode** Choose from more than 56 standard welding modes.
- 2b. Weld Mode Search Search for an appropriate mode based on material, process, shielding gas and other parameters.
- Continuous Volts/Trim Control Adjust voltage for MIG and Flux-Cored; adjust arc length (trim) for Pulsed MIG.
- Advanced Process Options Control pre-weld and post-weld settings to optimize arc starts and stops.
- Memory Presets Store up to 8 customized weld procedures.
- On/Off Power Switch Protected from the elements.

- 2 Step/4 Step For trigger interlock capability.
- 8. **Dual Procedure** Toggle between two weld procedures while welding.
- UltimArc[™] Control Adjust arc characteristics to match individual preferences.

BACK VIEW

10. Ethernet Connection

- Reversible Handles Protects the controls and assists two-person carrying around the shop or site.
- **12. External Shielding Gas Connection –** For GTAW (TIG) or spool guns.
- **13. External Shielding Gas Connection –** For GMAW (MIG) & FCAW.
- 14. Power Cord Connection

SIDE VIEW

- 15. Wire Drive Pressure Arm Calibrated scale can be used to vary drive pressure on the wire for different wires, guns or applications.
- **16. 5/8 in. (15.9 mm) Shielding Gas Fitting –** For TIG torch or spool gun connection.
- 17. 12-Pin Universal Remote Control Receptacle – For connecting remote output control, spool gun or push-pull gun.
- 18. Cold Inch/ Gas Purge Switch
- 19. 4-Pin MIG Gun Trigger Receptacle
- 20. Positive Polarity Stud
- 21. Negative Polarity Stud
- **22. Gun Bushing –** Brass-to-Brass gun connection.
- 23. Thumb Screw Used to secure the welding gun.

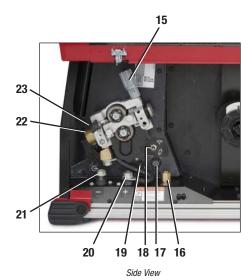


Front View



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Back View



WHAT'S INCLUDED

Steel Ready-Pak® Package Includes:

- K2675-2 Power Wave® C300 Base Unit
- K2734-2 Understorage Cart
- K2951-2-6-45 Magnum® PRO Curve™ 300 Gun Package with Magnum® PRO front end expendables
- Harris® Flowmeter/Regulator & Hose

Order K2774-2

Multi-Process Educational Ready-Pak® Package Includes:

- K2675-2 Power Wave® C300 Base Unit
- K2734-2 Understorage Cart
- K2951-2-6-45 Magnum® PRO Curve™ 300 Gun Package w/Magnum® PRO front end expendables
- K2505-3 TIG Torch Twist Mate[™]-to-Stud adapter
- K1782-12 PTA-17 Pro-Torch TIG Torch with Ultra-Flex™ Cable, 12 ft. (3.7 m), 1 pc.
- K1622-1 Twist Mate[™] Torch adapter
- KP508 Parts Kit For PTA-17 Series Torches
- Harris® Flowmeter/Regulator & Hose
- K870-2 Foot Amptrol™ with 12-Pin
- K2374-1 Stick Electrode Holder and Cable (includes Twist Mate™ connector)

Order K2774-4











Tribrid™ Power Module

Patent-pending Tribrid™ Power Module features Lincoln Electric's PowerConnect™ technology, Planar Transformer™ Technology and 120kHz output to provide exceptional welding performance while still maintaining a high power factor and efficiency.



iARC™ High Speed Digital Controls

iARC™ (Intelligent Architecture for Regulation and Control) digital welding controls are more than 10 times faster than the previous generation, with 128 times more RAM, and 8 times more flash memory. It also features 100Mbps Full Duplex Ethernet.

CheckPoint™

CHECK POINT

CheckPoint™ cloud server-based and mobile delivery solutions are the welding industry's most advanced weld data collection and monitoring tools, allowing fabricators to analyze their welding operations and processes. CheckPoint™ can provide necessary data for customer ISO, Six Sigma, statistical process control (SPC), quality cost delivery (QCD), overall equipment effectiveness (OEE) and lean manufacturing efforts. CheckPoint™ Standard Edition is offered at no charge with every Power Wave® purchase. An advanced capability Premium Subscription Edition is also available.

DRIVE ROLL KITS										
	Order Number									
Solid	.023030 in. (0.6-0.8 mm) .035 in. (0.9 mm) .035/.045 in. Combination .040 in. (1.0 mm) .045 in. (1.2 mm)	KP1696-030S KP1696-035S KP1696-1(t) KP1696-2 KP1696-045S								
Cored	.035 in. (0.9 mm) .045 in. (1.2 mm)	KP1697-035C KP1697-045C								
Aluminum	.035 in. (0.9 mm) 3/64 in. (1.2 mm)	KP1695-035A KP1695-3/64A								

⁽¹⁾ Included with K2675-2 Base Machine

RECOMMENDED ACCESSORIES



GENERAL OPTIONS

Canvas Cover
Protect your machine when not in use. Made from attractive red canvas that is flame retardant, mildew resistant and water repellent. Fits machine with or without a gas cylinder in the cylinder rack.

Order K2378-1



Remote Output Control with 12-pin Universal Connector Consists of a control box with choice of two cable lengths. Permits remote adjustment of output.

Order K857-2 for 25 ft. (7.6 m)



Foot Amptrol™ with 12-pin Universal Connector Provides 25 ft. (7.6 m) of remote

current control for TIG welding. Order K870-2



Hand Amptrol™ with 12-pin Universal Connector Provides 25 ft. (7.6 m) of remote current control for TIG welding.

Order K963-4



Understorage Cart

For easy shop mobility. Provides shielding gas bottle platform, and handy storage drawer. Also compatible with K2675-1 Power Wave® C300.

Order K2734-2



TIG OPTIONS

PTA-17 150 Amp Air-Cooled TIG Torch Order K1782-2 for 12.5 ft. (3.8 m) length, 2-cable Order K1782-4 for 25 ft. (7.6 m) length, 2-cable

PTA-26 200 Amp Air-Cooled

Order K1783-2 for 12.5 ft.

(3.8 m) length, 2-cable

(7.6 m) length, 2-cable

Order K1783-4 for 25 ft.



Arc Start Switch

Needed if an Amptrol™ is not used when TIG welding. Comes with a 25 ft. (7.6 m) cable. Attaches to the TIG torch for convenient finger control. (Requires K2909-1 12-pin to 6-pin Adapter).

Order K814



6-pin to 12-pin Adapter

7-pin to 12-pin Adapter

the new 12-pin connector.

Use for connecting 7-pin push-pull guns such as the Python®-Plus to

Use for adapting existing 6-pin remote controls such as the K870, K857, and K963-3 to the new 12-pin connector.

Order K2909-1



Parts Kits

TIG Torch

Magnum® Parts Kits provide all the torch accessories you need to start welding. Parts kits provide collets, collet bodies, a back cap, alumina nozzles and tungstens in a variety of sizes, all packaged in an easy to carry reclosable box.

Order KP508 for PTA-17 Order KP509 for PTA-26



TIG Torch Twist Mate™ to Stud Adapter Cable, 2 ft. (0.61 m) Gas Hose

Use for connecting a one piece TIG torch and Twist Mate™ connector to the Power Wave® C300 and TIG

Order K2505-3



STICK OPTIONS

Order K2910-1

Accessory Kit

Complete kit for stick welding. Includes 30 ft. (9.1 m) electrode cable, 25 ft. (7.6 m) work cable, headshield, work clamp and electrode holder. 150 amps. **Order K875**



RECOMMENDED ACCESSORIES



WIRE FEEDER OPTIONS

Fast-Mate™ Adapter
Allows guns with a Fast-Mate™
type back end to plug into a
Power Wave® C300.
Order K489-8



Magnum® 250LX Spool Gun

280 amps, 60% duty cycle. Feeds .025-3/64 in. (0.6-1.2 mm) diameter aluminum wire on 2 lb. (0.9 kg) spools. With remote wire feed speed control. 25 ft. (7.6 m) cable. Requires K2910-1 12-pin to 7-pin Adapter. Order K2490-1



Magnum® 250LX Spool Gun Control Cable Extension

Extend your spool gun reach.
Features a 7-pin female MS-type connector on the spool gun end and a 7-pin male MS-type connector on the power source end. 25 ft. (7.6 m) extension. Requires K2910-1 12-pin to 7-pin Adapter.

Order K2519-1



Cougar™ Pistol-Grip Air-Cooled Push-Pull Guns

Cougar™ push-pull guns are intended for those operators who prefer an upright pistol-grip design for aluminum welding fabrication or production. Features Sure-Grip™ handle, integrated strain relief and multi-turn potentiometer. Rated 300A @ 60% duty cycle w/Argon. Requires K2910-1 12-pin to 7-pin Adapter.

Order K2704-2 Air Cooled, 25 ft. (7.6 m) **K2704-3** Air Cooled, 50 ft. (15.2 m)



Magnum® PRO AL Air-Cooled Push-Pull Guns

The Magnum PRO AL gooseneckstyle guns are designed to optimize a push-pull welding operation for aluminum. Uses Magnum PRO MIG Gun expendables. Available in 7-pin and 12-pin connections.

Request Publication E12.14



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 MC08-70



Cool Arc® 55

Designed to integrate directly with the Power Wave® S-Series power sources, the Cool Arc® 55 is a rugged, reliable water cooler capable of cooling torches rated up to 500 amps. It is recommended for robotic and hand-held MIG, TIG and plasma cutting applications.

Order K3086-1

PRODUCT SPECIFICATIONS									
Product Name	Product Number	Input Power Voltage/Phase/Hertz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output	Wire Feed Speed Range ipm (m/min)	Wire Size Range inches (mm)	H x W x D inches (mm)	Net Weight lbs. (kg)	
Power Wave® C300	K2675-2	3 Ph 50/60: 208/220-230/380-	300A/29V/40% 250A/27V/100%	3 Ph / 40% Duty Cycle: 30/28/16/14/11A	50-700 (1.27-17.8)	Solid: .023045	18.8 x 14 x 27.4 (478 x 356 x 697)	100 (47.6)	
Power Wave® C300 Steel Ready-Pak® Pkg.	K2774-2	415/460/575 1 Ph 50/60: 208/220-230		1 Ph / 40% Duty Cycle: 53/48/29A		(0.6-1.2) Cored: .035045 (0.9-1.2)	40.2 x 24 x 45.2 (1021 x 609 x 1148)	180 (81.6)	
Power Wave® C300 Multi-Process Educational Ready-Pak® Pkg.	K2774-4								

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 or 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 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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