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®

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 x W x D)
18.8 x 14 x 27.4 in.
(478 x 356 x 696 mm)

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)

APPLICATIONS
- Construction
- Aerospace
- Fabrication
- Automotive
- Production
- Welder Training

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®, 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.

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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)
KEY CONTROLS

FRONT VIEW
1. 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.
3. Continuous Volts/Trim Control – Adjust voltage for MIG and Flux-Cored; adjust arc length (trim) for Pulsed MIG.
4. Advanced Process Options – Control pre-weld and post-weld settings to optimize arc starts and stops.
5. Memory Presets – Store up to 8 customized weld procedures.
6. On/Off Power Switch – Protected from the elements.
7. 2 Step/4 Step – For trigger interlock capability.
8. Dual Procedure – Toggle between two weld procedures while welding.
9. UltimArc™ Control – Adjust arc characteristics to match individual preferences.

BACK VIEW
10. Ethernet Connection
11. 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
23. Thumb Screw – Used to secure the welding gun.

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.

CheckPoint™
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.

RECOMMENDED ACCESSORIES

<table>
<thead>
<tr>
<th>DRIVE ROLL KITS</th>
<th>Wire Size</th>
<th>Order Number</th>
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<tbody>
<tr>
<td>Solid</td>
<td>.023-.030 in. (0.6-0.8 mm)</td>
<td>KP1696-030S</td>
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<td></td>
<td>.035 in. (0.9 mm)</td>
<td>KP1696-035S</td>
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<tr>
<td></td>
<td>.035/.045 in. Combination</td>
<td>KP1696-1</td>
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<td></td>
<td>.040 in. (1.0 mm)</td>
<td>KP1696-2</td>
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<tr>
<td></td>
<td>.045 in. (1.2 mm)</td>
<td>KP1696-045S</td>
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<tr>
<td>Cored</td>
<td>.035 in. (0.9 mm)</td>
<td>KP1697-035C</td>
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<tr>
<td></td>
<td>.045 in. (1.2 mm)</td>
<td>KP1697-045C</td>
</tr>
<tr>
<td>Aluminum</td>
<td>.035 in. (0.9 mm)</td>
<td>KP1695-035A</td>
</tr>
<tr>
<td></td>
<td>3/64 in. (1.2 mm)</td>
<td>KP1695-3/64A</td>
</tr>
</tbody>
</table>

(1) Included with K2675-2 Base Machine

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 KB877-2 for 25 ft. (7.6 m)

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 TIG Torch
Order K1783-2 for 12.5 ft. (3.8 m) length, 2-cable
Order K1783-4 for 25 ft. (7.6 m) length, 2-cable

Foot Amptral™ with 12-pin Universal Connector
Provides 25 ft. (7.6 m) of remote current control for TIG welding.
Order KB70-2

Hand Amptral™ with 12-pin Universal Connector
Provides 25 ft. (7.6 m) of remote current control for TIG welding.
Order KB63-4

Arc Start Switch
Needed if an Amptral™ 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 K2809-1 12-pin to 6-pin Adapter).
Order K814

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 solenoid.
Order K2505-3

STICK OPTIONS

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

Parts Kits
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 re closable box.
Order KP508 for PTA-17
Order KP509 for PTA-26

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® 250 LX 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® 250 LX 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 gooseneck-style 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

PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Product Number</th>
<th>Input Power Voltage/Phase/Hertz</th>
<th>Rated Output Current/Voltage/Duty Cycle</th>
<th>Input Current @ Rated Output</th>
<th>Wire Feed Speed Range (ipm/m/min)</th>
<th>Wire Size Range inches (mm)</th>
<th>H x W x D inches (mm)</th>
<th>Net Weight lbs. (kg)</th>
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<td>3 Ph / 40% Duty Cycle: 30/28/16/14/11A</td>
<td>50-700 (1.27-17.8)</td>
<td>Solid: .023-.045 (0.6-1.2)</td>
<td>Cored: .035-.045 (0.9-1.2)</td>
<td>18.8 x 14 x 27.4 (478 x 356 x 697)</td>
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<td>1 Ph / 40% Duty Cycle: 53/48/29A</td>
<td>1 Ph / 40% Duty Cycle: 53/48/29A</td>
<td>50-700 (1.27-17.8)</td>
<td>Solid: .023-.045 (0.6-1.2)</td>
<td>Cored: .035-.045 (0.9-1.2)</td>
<td>40.2 x 24 x 45.2 (1021 x 609 x 1148)</td>
</tr>
<tr>
<td>Power Wave® C300 Multi-Process Educational Ready-Pak® Pkg.</td>
<td>K2774-4</td>
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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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