**Power Wave® S350**

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

**Product Number**  
K2823-3  Power Wave® S350  
K3005-3  Power Wave S350 Ready-Pak® (Steel)

**WHAT’S INCLUDED**

- **K2823-3 Base Unit Includes:**  
  - 10 ft. (3.0 m) input power cord

**RECOMMENDED WIRE FEEDERS**

- Power Feed 84 Bench and Boom models
- Power Feed 25M

**APPLICATIONS**

- Construction
- Aerospace
- Fabrication
- Automotive
- Production
- Weld Training

**Input Voltage**  
208/230/380-415/460/575/1/3/50/60

**Input Current @ Rated Output**  
3 Ph / 40% Duty Cycle: 39/35/19/17/14A  
1 Ph / 40% Duty Cycle: 60/61/NA/NA/NA A

**Output Range**  
5-350 Amps

**Rated Output**  
GMAW: 350A/31.5V/40%  
GMAW: 300A/29V/100%

**Weight/Dimensions (H x W x D)**  
85 lbs. (38.6 kg)  
20.40 x 14 x 24.80 in. (518 x 356 x 630 mm)

**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 system to view or analyze your welding data. Track equipment usage, store weld data, configure fault limits and more.
- **Optional 115V (10A) AC Duplex Auxiliary Power Receptacle** – Features patented Surge Blocker™ Technology to ensure simultaneous welding performance is not compromised by high starting current devices such as grinders (typically requiring 60A or more peak surge current).
- **Compact and Durable Case** – IP23 rated to withstand harsh environments.
- **Standard Ethernet** – Allows for effortless software upgrades through powerwavesoftware.com

**INPUT**

- 1/3 PHASE
- 50/60 Hz

**OUTPUT**

- CC
- CV
- DC

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**APPLICATIONS**

- Construction
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- Automotive
- Production
- Weld Training
To tap into the Power Wave S350 Stick, TIG and CV MIG process capability without a Power Feed® series wire feeder, add the K3001-2 S-Series User Interface Kit. This optional interface provides full control of welding parameters from the front panel of the power source for Stick and TIG processes.

When used with a Power Feed series wire feeder, the feeder is typically used for controlling the system and the K3001-2 S-Series User Interface Kit meters can be used for viewing amps and volts. Kit also includes 12-pin Universal Remote Receptacle and TIG Gas Solenoid.

The S-Series User Interface Kit allows control over:

- **Volts/Amps Control** – Adjust volts in MIG and Flux-Cored welding or adjust amperage in Stick or TIG welding.
- **Welding Mode** – Select the stick, TIG or CV wire process.
- **Advanced Process Options** – Control pre- and post-weld settings to optimize arc starts and stops.
- **Arc Control** – Adjust arc characteristics to match individual preferences.

**FRONT**
1. Optional S-Series User Interface (K3001-2) for Stick, TIG and CV MIG with voltage sensing feeder
2. Status Light
3. Thermal Fault Indicator Light
4. Tweco®-Style Cam-Lock Output Terminals
5. Optional Output Control Receptacle – 12-pin (included with K3001-2 S-Series User Interface)
6. Work Sense Lead Receptacle
7. Main Power Switch
8. Reversible Handles

**BACK**
9. 115V (10 Amp) AC Duplex Auxiliary Power Receptacle and Circuit Breaker (Optional - Order K2829-1 Kit)
10. ArcLink® Welding System Component Communication Cable Receptacle
11. Circuit Breaker
12. Sync Tandem/STT® Receptacle
13. Input Power Cable Connection
14. TIG Solenoid Kit Knockout (optional TIG Solenoid included with K3001-2 S-Series User Interface)
15. Ethernet Cable Receptacle
16. Reversible Handles

**OPTIONAL K3001-2 S-SERIES USER INTERFACE**
WHAT'S INCLUDED

Ready-Pak Packages
Ready-Pak packages are assembled and shipped on one pallet. Welding wire and shielding gas must be ordered separately.

Power Wave S350 Ready-Pak (for Steel)
- Power Wave S350 Power Source (K2823-3)
- Power Feed 84 Wire Feeder (Bench Model) (K3328-13)
- .035 in. (0.9 mm) Drive Roll and Split Wire Guide Kit (KP1505-035S)
- .040-.045 in. (1.0-1.2 mm) Drive Roll and Split Wire Guide Kit (KP1505-045S)
- Magnum® PRO Curve™ 400 Gun and Cable Package (K2952-2-10-45)
- Work Lead and Wire Feeder Power Source Cables Package — 350 amps, 60% duty cycle with Tweco style Cam-Lock connectors and Ground Clamp (K1803-2)
- Inverter and Wire Feeder Cart (K3059-4)
- Harris® Flowmeter and Regulator (3100211)
Order K3005-3

TECHNOLOGIES

Tribrid Power Module
Features 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, is the welding industry’s most advanced weld data collection and monitoring tool, allowing fabricators to analyze their welding operations and processes. These tools 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 is offered at no charge with every Power Wave purchase.

iARC High Speed Digital Controls
iARC (Intelligent Architecture for Regulation and Control) digital welding controls are faster, include more RAM, and more memory than the previous generation. It also features 100Mbps Full Duplex Ethernet to support Lincoln Electric’s CheckPoint.

Rugged Reliability
Tested under severe conditions:
• Extreme Temperature Ranges
• Extreme Humidity
• Rain
• Dirt and Dust
• IP23 Rated Performance

RECOMMENDED ACCESSORIES

GENERAL OPTIONS
Wireless Connectivity Module
Simple and secure machine connectivity solution for monitoring and control capabilities without the hassle of costly network cables.
Order K4302-1

S-Series User Interface Kit
This kit allows local control of stick, TIG and wire processes from the power source control panel. Includes TIG Solenoid and Remote Control Connector.
Order K3001-2

115V Auxiliary Kit
Add a duplex 115V receptacle to the back of the machine. Includes PC board and harness which must be installed.
Order K2829-1

Inverter and Wire Feeder Cart
Rear-wheeled cart with front casters and gas bottle platform. Convenient handles allow for easy cable storage. Small footprint fits through 30 in. (762 mm) door. Not intended for use with double head wire feeders.
Order K3059-4

Dual Cylinder Inverter & Wire Feeder Cart
Rear-wheeled cart with front casters and dual cylinder platform. Convenient handles allow for easy cable storage. Small footprint fits through 30 inch (762 mm) door.
Order K3059-5

Tweco Style Cam-Lock Adapter Plug for Work & Electrode Cables
Cable plug for 2/0 (50 mm²) cable.
Order K2946-1

Work Voltage Sense Lead Kit
Required to accurately monitor voltage at the arc.
Order K340-25 for 25 ft. (7.6 m)
Order K341-50 for 50 ft. (15.2 m)
Order K347-100 for 100 ft. (30.5 m)

LC-40
Tweco-Style Receptacle (female, 1/0 Thru 2/0)
Order K3417-70

LC-40HD
Tweco-Style Plug (male, 3/0 Thru 4/0)
Order K3416-90

LC-40HD
Tweco-Style Receptacle (female, 3/0 Thru 4/0)
Order K3417-90

Deluxe Adjustable Gas Regulator & Hose Kit
Accommodates CO₂, Argon, or Argon-blend gas cylinders. Includes a cylinder pressure gauge, dual scale flow gauge and 4.3 ft. (1.3 m) gas hose.
Order K586-1

Power Wav
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, including any implied warranty of merchantability or any warranty of fitness for any customers’ particular purpose is specifically disclaimed. 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, 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.

For best welding results with Lincoln Electric equipment, always use Lincoln Electric consumables. Visit www.lincolnelectric.com for more details. On 208 Volt inputs, the maximum output is limited to 300 amps. On 230 Volt / 1 Phase inputs, the peak rating is at a duty cycle of 30%, except for GTAW processes. Based on the U.S. National Electrical Code. PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Product Name</th>
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<th>Input Voltage</th>
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<th>Rated Output Current/Voltage/Duty Cycle</th>
<th>Output Range</th>
<th>H x W x D (mm)</th>
<th>Net Weight lbs. (kg)</th>
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<td>208/230/380-415/460/575/1/350/60</td>
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<td></td>
<td></td>
<td></td>
<td>52 x 39 x 26 (1321 x 991 x 660)</td>
<td>450 (204.1)</td>
</tr>
</tbody>
</table>

(1) Based on the U.S. National Electrical Code
(2) On 230 Volt / 1 Phase inputs, the peak rating is at a duty cycle of 30%, except for GTAW processes
(3) On 208 Volt inputs, the maximum output is limited to 300 amps


CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenges 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.

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 these types of fabrication methods and service requirements.

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