**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)

See back for complete specs

**Portable, Powerful, Multi-Process.**
The multi-process Power Wave® S350 is packed with Lincoln Electric performance technology on both the input and output side. It provides an extremely fast arc response, includes over 65 standard welding waveforms for optimized performance on almost any application and efficiently converts input power to reduce operational costs – all in a compact, rugged case.

**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 patent-pending 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

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

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

**INPUT**

<table>
<thead>
<tr>
<th>PHASE</th>
<th>HZ</th>
<th>CC</th>
<th>CV</th>
<th>DC</th>
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<tbody>
<tr>
<td>1/3</td>
<td>50/60</td>
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</table>

**OUTPUT**

**RECOMMENDED WIRE FEEDERS**
- Power Feed 84 Bench and Boom models
- Power Feed 25M

**WAVEFORM CONTROL TECHNOLOGY® PROCESS CAPABILITIES**
- Pulse
- Pulse-on-Pulse®
- Power Mode®
- RapidArc®
- Rapid X™ (with STT® Module)
- Upgradable for additional processes to be developed in the future.

**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)

Lincoln Electric
22801 St. Clair Avenue • Cleveland, OH • 44117-1199 • U.S.A.
Ph: 216-481-8100 • www.lincolnelectric.com
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.
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

Power Wave S350 Ready-Pak (for Chromoly)

- 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

Power Wave S350 Ready-Pak (for Stainless)

- 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.

Rugged Reliability

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

RECOMMENDED ACCESSORIES

GENERAL OPTIONS

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

DeviceNet Kit
The kit allows DeviceNet connectivity to control the power source. Includes internal harness and 5-pin DeviceNet™ receptacle for mounting on power source back panel. Order K2827-2

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 K3069-4

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 in. (762 mm) door. Order K3059-5

LC-40 Tweco-Style Plug (male, 1/0 Thru 2/0) Order K3416-70

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

Work Voltage Sense Lead Kit Required to accurately monitor voltage at the arc. Order K940-25 for 25 ft. (7.6 m) Order K1811-50 for 50 ft. (15.2 m) Order K1811-100 for 100 ft. (30.5 m)

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
RECOMMENDED ACCESSORIES

Foot Amptrol™ with 12-pin Universal Connector
Provides 25 ft. (7.6 m) of remote current control for TIG welding. Requires K3001-2 S-Series User Interface Kit.
Order K670-2

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 reclosable box.
Order KP508 for PTA-17
Order KP509 for PTA-26

Hand Amptrol™ with 12-pin Universal Connector
Provides 25 ft. (7.6 m) of remote current control for TIG welding. Requires K3001-2 S-Series User Interface Kit.
Order K675-3-4

Remote Output Control with 12-pin Universal Connector
Permits remote adjustment of output. Requires K3001-1 Stick/TIG User Interface.
Order K857-2 for 25 ft. (7.6 m)

12-pin to 6-pin Adapter
Allows older 6-pin remote controls (K830, K893-3, K857) to be used with 12-pin Universal Connection.
Order K2909-1

PTA-26FW 200 Amp Air-Cooled TIG Torch
Order K1783-11 for 12.5 ft. (3.8 m) length, 1-cable. With Tweco-style adapter.

WIRE FEEDER OPTIONS

Weld Package
Includes Tweco-style Cam-Lock connectors, work clamps, 15 ft. (4.5 m) work cable and 10 ft. (3.0 m) electrode cable. Rated 350 amps, 60% duty cycle.
Order K1800-2

Pulse Welding
Provides multi-process reverse polarity (DC+), straight polarity (DC-), AC, high frequency TIG and STT functionality. Compatible with Power Wave S350 and S500.
Order K2912-I

Power Wave Advanced Module
Provides multi-process reverse polarity (DC+), straight polarity (DC-), AC, high frequency TIG and STT functionality. Compatible with Power Wave S350 and S500.
Order K2912-I

AutoDrive® 19 Controller
Relays wire feed commands from a Power Wave S-Series power source to any AutoDrive Series robotic wire drive for automated welding operation. Not compatible with Power Wave R-Series power sources.
Order K3004-2

Power Wave STT Module
This module allows easy connection and fast digital communication with compatible Power Wave S-Series power sources, Power Feed wire feeders, and compatible water coolers. Add STT capability without having to purchase a second power source.
Order K2902-1 US/Int'l (shown)
Order K2921-1 CE

Power Wave Field Interface Kit
Provides a connection to the AutoDrive I/O module for remote control of a Power Wave R-series power source from a remote location.
Order K3005-2

PRODUCT SPECIFICATIONS

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<tr>
<th>Product Name</th>
<th>Product Number</th>
<th>Input Voltage</th>
<th>Input Current @ Rated Output</th>
<th>Rated Output Current/Voltage/Duty Cycle</th>
<th>Output Range(1)</th>
<th>H x W x D (inches)</th>
<th>Net Weight lbs. (kg)</th>
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<td>K2823-3</td>
<td>208/230/380-</td>
<td>3 Ph / 40% Duty Cycle: 39/52/19/17/14</td>
<td>GMAW: 350A/31.5V/40%(2)</td>
<td>5-350A</td>
<td>29.40 x 14 x 24.60 (518 x 356 x 630)</td>
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<tr>
<td>Power Wave S350</td>
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<td>208/230/380-</td>
<td>1 Ph / 100% Duty Cycle: 60/67/9/NA/NA/NA</td>
<td>AutoDrive® 19 Controller</td>
<td>5-350A</td>
<td>52 x 39 x 26 (1231 x 991 x 660)</td>
<td>450 (204.1)</td>
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<td>Ready-Pak (Steel)</td>
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<td>415/460/575/13/35/60</td>
<td>1 Ph / 100% Duty Cycle: 60/53/NA/NA/NA</td>
<td>AutoDrive® 19 Controller</td>
<td>5-350A</td>
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</table>

(1) Based on the U.S. National Electrical Code
(2) On 208 Volt inputs, the maximum output is limited to 300 amps


CUSTOMER ASSISTANCE POLICY

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