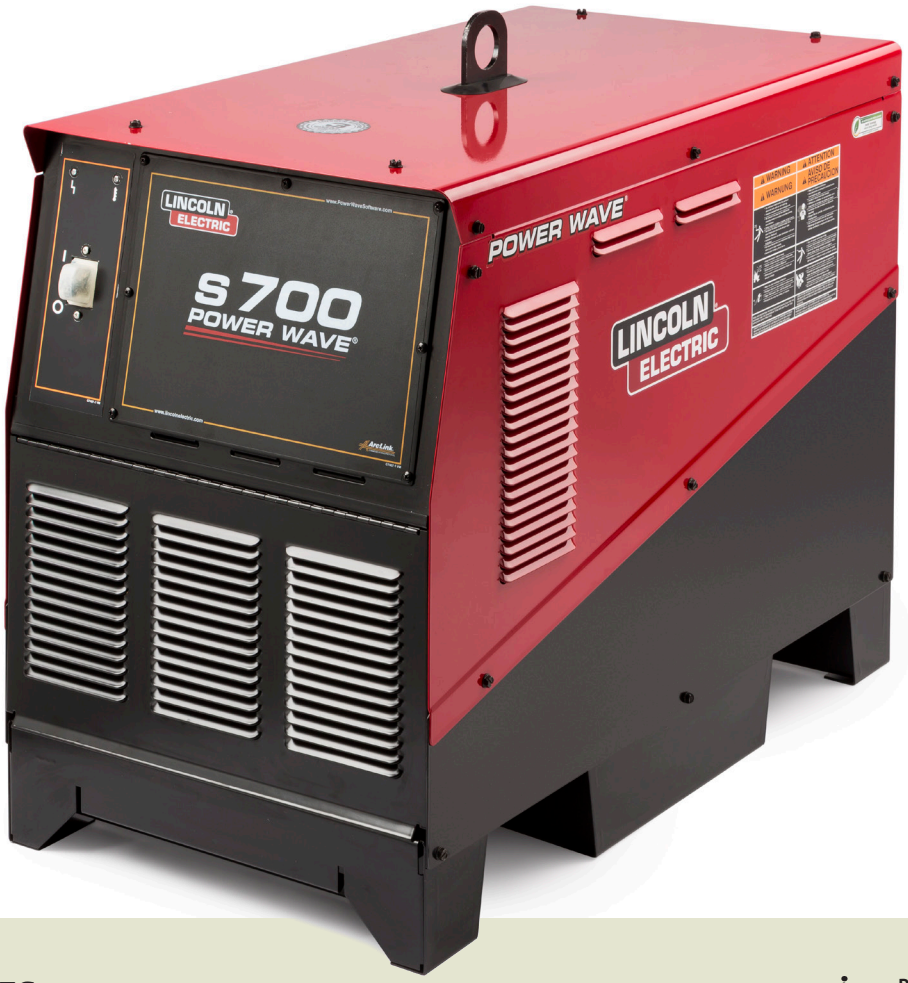
POWER WAVE® S700

Flexible Configuration. Endless Possibilities.



KEY FEATURES

The Power Wave S700 is the ideal power source for high amperage, high duty cycle applications. Typically recommended for 1/16 inch (1.6mm) wire and up, the Power Wave s700 has a wide output range (20 – 900A) and delivers maximum performance in semiautomatic, hard automation or robotic environments.

- **Flexible Input Voltage Options –** 200-575 VAC, 3 phase, 50/60Hz
- **Reliable Performance –** Tested for harsh environments and IP23 rated
- **Intelligent Welding –** Embedded Waveform Control Technology® delivers the ideal arc for any application.

Processes »
Stick, TIG, MIG, Pulsed MIG, Flux-Cored, Tandem MIG®, Carbon Arc Gouging, HyperFill™

Output »
CC CV DC

Input »
3 PHASE 50/60 Hz

Applications »
Semiautomatic, Automation, Hard Automation, Heavy Equipment, Transportation, Fabrication

Product Numbers »
K3279-1, K3557-1

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LINCOLN® ELECTRIC

FEATURES

High Performance, Versatile Power Source

- Industry-leading performance for high-amperage, high duty cycle applications.
- Wide input voltage range to accommodate global operations (200-575 VAC, 3 phase, 50/60Hz voltage).
- Flexible configuration allows for use in semi-automatic, hard automation or robotic applications.
- Fan-As-Needed™ (F.A.N.) reduces power consumption by shutting the fan down when it is not needed.

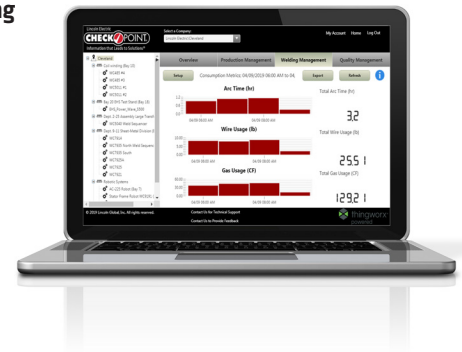
Built-In Advanced Technology

- Power Wave Manager and digital Arclink® Ethernet communication allows for easy system configuration and customization.
- Get easy, accurate heat input calculations with True Energy. No extra equipment or measuring tools needed.

TECHNOLOGIES

CheckPoint® Production Monitoring

- Real-time production monitoring data
- Powerful dashboards for full operation visibility
- Easily export and share
- Secure, cloud-based solution (no hardware, no installation)



ArcLink Communication

- Industry-leading system communication
- 4x faster arc start detection time
- No external hardware required
- Plug and use simplicity
- On-the-fly process changes

WaveForm Control Technology®

- Simply select and optimized arc performance for any application
- Large, continuously growing portfolio of application-specific waveforms
- Latest waveform innovations are always free and easy to update.

CABLES

ARCLINK®/LINC-NET™ CONTROL CABLES

Description	Order Number
8 ft. (2.5 m) (without weld cable)	K1543-8
25 ft. (7.6 m) (without weld cable)	K1543-25
50 ft. (15.2 m) (without weld cable)	K1543-50
100 ft.(30.4 m) (without weld cable)	K1543-100
25 ft. (7.6 m) Heavy Duty (without weld cable)	K2683-25
50 ft. (15.2 m) Heavy Duty (without weld cable)	K2683-50
100 ft. (30.4 m) Heavy Duty (without weld cable)	K2683-100

WELD POWER CABLES

Description	Order Number
Lug to Lug, 3/0, 600A, 60% Duty Cycle, 10 ft. (3.1 m)	K1842-10
Lug to Lug, 3/0, 600A, 60% Duty Cycle, 35 ft. (10.7 m)	K1842-35
Lug to Lug, 3/0, 600A, 60% Duty Cycle, 60 ft. (18.3 m)	K1842-60
Lug to Lug, 4/0, 600A, 60% Duty Cycle, 110 ft. (33.5 m)	K1842-110
Lug to Lug, 4/0, 35 ft. (10.7 m)	K2163-35[1]
Lug to Lug, 4/0, 60 ft. (18.3 m)	K2163-60[1]

[1] Two cables per package.

14-PIN TO 14-PIN CONTROL CABLES

For use with FANUC® Arms Having Integrated Cable	Order Number
18 in. (0.45 m)	K1785-2
2 ft. (0.61 m)	K1785-3
4 ft. (1.2 m)	K1785-4
12 ft. (3.6 m)	K1785-12
16 ft. (4.8 m)	K1785-16
25 ft. (7.6 m)	K1785-25
40 ft. (12.2 m)	K1785-40
50 ft. (15.2 m)	K1785-50
100 ft. (30.4 m)	K1785-100
For External Dress of FANUC® Arm or Hard Automation	**Order Number**
25 ft. (7.6 m)	K2709-25
50 ft. (15.2 m)	K2709-50
100 ft. (30.4 m)	K2709-100

RECOMMENDED ACCESSORIES

GENERAL OPTIONS

CE Filter
High power filter that enables a Power Wave® CE "ready" machine to conform to the EMC standards of Europe and Australia.
Order K2444-4

Deluxe Adjustable Gas Regulator and Hose Kit
Accommodates CO_2, 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

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

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

Wireless Connectivity Module
Simple and secure machine connectivity solution for monitoring and control capabilities without the hassle of costly network cables.
Order K4352-2

WIRE FEEDER OPTIONS

AutoDrive® 19 Controller
Relays wire feed commands from 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 K3004-1

AutoDrive® 19 Tandem Controller
Relays wire feed commands from Power Wave® S-Series power source to any AutoDrive® Series robotic wire drive for automated tandem welding operations.
Order K3171-1

Power Feed® 84
Advanced, digital wire feeders that provide comprehensive process control in a simple-to-use, rugged design.
See publication E8.268

Power Feed® 25M
Advanced, compact wire feeders designed to provide comprehensive process control with push-pull capability in a rugged, portable design.
See Publication E8.271

AutoDrive® 4R220
Robotic wire feeding system that offers powerful, industry-proven wire feeding performance for robotic and hard automation applications.
See publication E10.12

AutoDrive® S
Servo-driven robotic wire feeding system that employs touch-retract starting technology for improved arc starts and wire feed consistency
See publication E10.17.1

PRODUCT SPECIFICATIONS

Product Name	Product Number	Input Power Voltage/Phase/Hertz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	H x W x D in (mm)	Net Wt lbs. (kg)
Power Wave® S700	K3279-1[1]	380-415/440-460/ 500/575/3/50/60	700A / 44V / 100% (900A / 44V / 60%)	55A/46A/42A/38A (74A/60A/56A/49A)	20 - 900A	30.1 x 19.1 x 36.7 (765 x 485 x 932)	385 (175)
	K3557-1	200/230/3/50/60		106/92A (138/120A)			

[1] Internal filter is required to meet CE conducted emission requirements. K2444-4 CE Filter Module must be used with K3279-1.

For best welding results with Lincoln Electric equipment, always use Lincoln Electric consumables. Visit www.lincolnelectric.com for more details.
Manufactured at a facility with certified ISO Quality and Environmental Management Systems.

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