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, SAW, Tandem MIG®, Carbon Arc Gouging, HyperFill™

Applications »

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

Output »









Product Numbers »

POWER WAVE S700 **K3279-1**

POWER WAVE S700 (CCC) **K3279-2**

POWER WAVE \$700 (200V) **K3557-1**

POWER WAVE S700 (CE) (CE Filter Preinstalled) **K5372-1**



FEATURES

High Performance, Versatile Power Source

- · Industry-leading performance for highamperage, 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 semiautomatic, 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		

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

Note: Filter comes preinstalled on K5372-1



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



Deluxe Adjustable Gas Regulator and Hose Kit

Accommodates CO., 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



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



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



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



K1811-50 for 50 ft. (15.2 m) K1811-100 (shown) for 100 ft.

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

Order K4352-2

(30.5 m)



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	HxWxD in (mm)	Net Weight Ibs (kg)
Power Wave S700	K3279-1	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)	400 (181)
Power Wave S700 (CCC)	K3279-2						
Power Wave S700 (200V)	K3557-1	200, 230 / 3 / 50, 60		106 / 92A (138A / 120A)			
Power Wave S700 (CE)	K5372-1	380-415, 460-480, 500 / 3 / 50, 60		55A / 46A / 42A/ (72A / 60A / 54A)			365 (165)

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.

CUSTOMER ASSISTANCE POLICY

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