

POWER WAVE® R450

Industry's most capable 450A robotic power source

High Performance Welding System

- Industry leading – fastest travel speeds, lowest spatter generation, superior gap bridging, & excellent penetration profiles.
- Fastest cycle times made possible with the world's fastest robotic interface – ArcLink®
- Join the widest range of material thicknesses from 0.6mm and greater
- Equipped with the most comprehensive portfolio of welding modes including Nickel, Stainless, Low and High Alloy

Increase productivity through system data

- Track essential welding data with Lincoln Electric's CheckPoint® production monitoring solution.
- Wi-Fi & Bluetooth capability extends networking and data access potential
- Support QA initiatives with traceability metrics down to the actual part and operator level

Improve quality and reduce cost

- Favorites Mode list – Customize the machine for your work environment – to keep setup simple.
- Energy Saving Mode* - machine draws less than 50W in Hibernate Mode – reducing operation costs

* Robot manufacturer dependent



Rating

450A @ 100%, 500A @ 60%

Processes – Basic

MIG, TIG, Flux-Cored

Processes – Advanced

High Performance Pulse Modes for: Steel, Stainless Steel, Aluminum, and Nickel

Output



Input



Applications

- Automotive
- Heavy Fabrication
- General Fabrication

Product Highlights

- PowerConnect® Technology for 200-600V input
- Supports advanced servo-driven wire feeders
- ArcLink® plug and play capability with robot manufacturers including FANUC®, Yaskawa®, ABB® and Kuka®

Key Accessories

- Wire Feeders
- Dress Out Kits
- ArcLink® Cables
- Wireless Connectivity Module (K4352-1)
- 115V Auxiliary Kit (K2829-1)

POWER WAVE® R450 - SPECIFICATIONS

Product Number	Input Power Voltage/Phase/Hertz	Rated Output Current /Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	Dimensions H x W x L in (mm)	Weight lbs (kg)
K3451-1 Power Wave® R450	208/230/380- 415/460/575/3*/50/60	GMAW: 550/41.5/40% GMAW: 450/36.5/100% GTAW-DC: 550/32/40% GTAW-DC: 450/28/100%	40% Duty Cycle: 80/73/41/37/29	5-550A	22.5 x 14 x 24.8 (571 x 355 x 630)	150 (68)
K3451-2 Power Wave® R450 with Wireless Connectivity Module	208/230/1/50/60*		100% Duty Cycle: 60/54/30/27/21			

* Single phase rating has reduced output characteristics. Contact Lincoln Electric for more information.

CUSTOMER ASSISTANCE POLICY

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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