

WIRELESS CHARGING 24V

AB-WLC-3000

ATOMBOTIX



High Power Output



3000W rated power for rapid and efficient charging of high-power devices

Efficient Charging



≥87% max transmission efficiency for fast power transfer and time-saving

Intelligent Charging Management



Constant-current to constant-voltage mode for optimized performance

Moderate Working Distance & Offset Tolerance



40 - 80 mm vertical, X-axis 50 mm & Y-axis 10 mm horizontal

Sturdy & Protective Structure



Emitter, receiver & power supply box with IP65, IP65 & IP54 protection levels

Safety and Reliable



The contactless charging mechanism eradicates the potential hazards of electric shock and current leakage

Model	AB-WLC1200-24V50A	AB-WLC3000-24V100A
Electrical Parameters		
Rated Power	1500 W	3000 W
Pre-stage Power Supply Voltage Input	110 - 264 VAC	110 - 264 VAC
Rated Output Voltage Range	15-30 V	15-30 V
Rated Output Current Range	50 A	100 A
Max. Transmission Efficiency	87%	87%
Essential Parameters		
Vertical Working Distance	20-100 mm	0 - 80 mm
Maximum Horizontal Offset Distance	Long - axis 20 mm, short - axis 10 mm	Long - axis 50 mm, short - axis 10 mm
Charging Management	Constant - current & constant - voltage	Constant - current & constant - voltage
Over-temperature Protection	75 ± 2°C	75 ± 2°C
Output Over-current Protection	≥ 55 A	≥ 104 A
Output Over-voltage Protection	≥ 31 VDC	≥ 31 VDC
Communication	RS485, CAN	RS485, CAN
Alarm and Charging Status Indication	Indicator light alarm	Indicator light alarm
RF Data Communication Frequency	2.4GHz	2.4GHz
Cooling Method	Natural cooling	Natural cooling

Dimensions

Transmitter Size	300 mm × 300 mm × 80 mm	300 mm × 300 mm × 80 mm
Receiver Size	300 mm × 300 mm × 70 mm	300 mm × 300 mm × 80 mm
Transmitter Weight	9 kg	10 kg
Receiver Weight	9 kg	10 kg

Environment Parameters

Working Temperature	-40 °C - 60 °C	-20°C - 60°C
Working Humidity	0 - 85%	0 - 85%
Storage Temperature	-40°C - 70°C	-25°C - 70°C

Protection Level

Emitter Protection Level	IP65	IP67
Receiver Protection Level	IP65	IP67

