

Wireless Charging

Wireless Charging 48V

ATOMBOTIX



High Efficiency & Energy Saving



90% transmission efficiency cuts energy use, speeds up charging, boosts energy efficiency, and cuts costs

Flexible Adaptation



Constant-current to constant-voltage charging management smartly suits diverse devices. It precisely handles low-battery quick charging and full-battery trickle charging for optimal results

Safety & Reliable



The contactless charging mechanism eradicates the potential hazards of electric shock and current leakage, ensuring a secure and dependable charging experience

Robust & Durable



IP67-rated transmitter and receiver. The sealed design resists dust and water. Stable in any setting, from dusty outdoors to humid indoors, it offers lasting, reliable charging

Model	AB-WLC-1200	AB-WLC-3000
Electrical Parameter		
Rated Power	1200 W	3000 W
Front-end power supply voltage Input	90 - 264 VAC	110 - 264 VAC
Rated Output Voltage	40 - 60 VDC	40 - 60 VDC
Rated Output Current	0 - 20 A	50 ± 1 A
Maximum Transmission Efficiency	≥85%	≥87%
Essential Parameters		
Vertical Working Distance	10-40 mm	40-80 mm
Maximum Horizontal Offset Distance	X - axis: 20 mm; Y - axis: 10 mm	X - axis: 50 mm; Y - axis: 10 mm
Charging Management	Constant Current & Constant Voltage Charging Management	Constant Current & Constant Voltage Charging Management
Over-temperature Protection	Support	75 ± 2°C
Over-current Protection	Support	55 A (preset current 50 A)
Over-voltage Protection	Support	61 VDC (preset voltage 60 V)
Receiver Communication Interface	RS485, CAN	CAN, 485
Transmitter Communication Interface	RS485, CAN	CAN, 485
Alarm and Charging Status Indication	Indicator light alarm	Indicator light alarm
RF Data Communication Frequency	2.4 GHz	2.4 GHz
Cooling Method	Natural cooling	Natural cooling
Dimensions		
Transmitter Size	190 mm × 170 mm × 59 mm	(300 ± 2) mm × (300 ± 2) mm × (80 ± 0.5) mm
Receiver Size	160 mm × 140 mm × 49 mm	(250 ± 2) mm × (250 ± 2) mm × (70 ± 0.5) mm
Front-stage Power Supply Size	294 mm × 210 mm × 111 mm	(520 ± 1) mm × (300 ± 1) mm × (123 ± 2) mm

Transmitter Weight	3 kg	10 ± 0.2 kg
Receiver Weight	2.3 kg	10 ± 0.2 kg
Front-stage Power Supply Weight	6.4 kg	13.5 ± 0.2 kg
Environment Parameters		
Working Temperature Range	-40°C - 60°C	-40°C - 60°C
Working Humidity Range	0 - 85%	0 - 85%
Storage Temperature	-25°C - 85°C	-20°C - 70°C
Protection Level		
Emitter Protection Level	IP67 (Encapsulation)	IP65
Receiver Protection Level	IP67 (Encapsulation)	IP65
Power Supply Box Protection Level	/	IP54

