

NEW PRODUCT



3.3 kW Wireless Charging System MOOV^{air}03

Highly efficient wireless charging for industrial applications including electric vehicles.

Ready for Industry 4.0

- Charge control and status data available via a range of convenient methods
- Suitable for in-process and opportunity charging
- Safe & unmanned 24/7 operation

Versatile Charging

Charge any battery type

- Lithium or lead acid
- Option for temperature compensation
- Models for 24V, 36V and 48V batteries
- Fully automated charging

Wireless Power Transfer

- Efficiency meets traditional wired chargers
- No connector wear means no maintenance downtime
- No sparks or exposed metal contact

Product Overview

Primary Box
(WPB)



Primary Pad
(WPP)



Secondary Box
(WSB)



Secondary Pad
(WSP)



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Specifications

AC Input				
AC Input Rated Voltage		200 to 240 V _{AC} 1PH		
AC Input Voltage Range		180 to 264 V _{AC} 1PH		
AC Input Frequency		47 to 63 Hz		
Maximum AC Input Current		16 A		
Power Factor (100% Load)		> 0.99		
Peak Efficiency		> 92%		
Standby Power ¹		≤ 10 W ²		
DC Output				
DC Output Nominal Voltage		24 V _{DC}	36V _{DC} 48 V _{DC}	
DC Output Voltage Range		12 to 33 V _{DC}	18 to 49.5 V _{DC} 24 to 66 V _{DC}	
Maximum Charge Current		132 A	88 A66 A	
Maximum Output Power		3,300 W		
Battery Type		Lithium Ion, Lead Acid (AGM / GEL)		
Output Protection		Over voltage, over current, short circuit, reverse connection		
Parallel Operation		Up to 2 chargers for a maximum of 6.6 kW		
Standby Power ³		≤ 3 W		
Charge Modes	Set points from vehicle	CANopen®		
	Set points from infrastructure	Ethernet		
	Pre-programmed standalone operation	User programmable CC-CV profile		
		Multi-stage charge profile		
Environmental Conditions				
Operating Temperature ⁴	WPB and WPP	-40 °C to +40 °C (-40 °F to 104 °F)		
	WSB and WSP	-40 °C to +70 °C (-40 °F to 150 °F)		
Storage Temperature		-45 °C to +70 °C (-49 °F to 158 °F)		
Relative Humidity		4% to 100% non-condensing		
Maximum Operating Altitude		3,000 m (9,842 ft)		
Ingress Protection	WPB	IP65		
	WPP and WSP	IP67		
	WSB	IP65		
Mechanical Design				
Pad Air Gap Range		10 mm to 30 mm (0.4 to 1.2 in)		
Maximum Misalignment		25 mm (1.0 in)		
Dimensions (L x W x H)	WPB	420 x 310 x 68 mm (16.5 x 12.2 x 2.7 in)		
	WPP	230 x 515 x 44 mm (9.1 x 20.3 x 1.7 in)		
	WSP	150 x 360 x 32 mm (5.9 x 14.2 x 1.3 in)		
	WSB	254 x 165 x 51 mm (10.0 x 6.5 x 2.0 in)		
Weight	WPB and WPP	20 kg (44.1 lbs)		
	WSB and WSP	8 kg (17.6 lbs)		
Cable Length	WPP	2.0 m (78.7 in)		
	WSP	1.0 m (39.4 in)		
	DC output	1.05 m (43.3 in)		
Cooling		Natural convection		
Status LEDs		WPB		
Approvals and Compliance ⁵		Europe	USA	Canada
Safety Marks		CE	cMET _{US}	Pending
Safety		Pending	Pending	Pending
EMC		CISPR 11, IEC 61000-6-2	FCC part 18 subpart C	Pending
RF			Pending	
EMF			Pending	

1. WPB connected to AC but not charging.
2. CEC requirement. Actual figure not yet available and will likely to be lower
3. Secondary box connected to battery and not charging and not in Sleep mode
4. Derating above 40 °C (TBC)
5. The full list of standards to be applied are pending

