

30 kW Wireless Charging System

Highly efficiency wireless charging for industrial electric vehicles providing up to 300 A. Ideal for fast and opportunity charging.

- No part wear
- Fully automated charging
- Charges lithium batteries fast and frequently





MOOV^{air}30 Wireless Charging System



Product Overview



Primary Box (WPB)



Primary Pad (WPP)



Secondary Unit (WSU)

Specifications

Product Line		MOOV ^{air} 30
AC Input		
AC Input Rated Voltage		380 to 480 V _{AC} 3PH
AC Input Voltage Range		342 to 528 V _{AC} 3PH
AC Input Frequency		47 Hz to 63 Hz
Maximum AC Input Current		48 A
Power Factor (100% Load)		0.95
Peak Efficiency		> 95%
Standby Power ¹		≤ 10 W
DC Output		
DC Output Nominal Voltage		100 V _{DC}
DC Output Voltage Range		72 to 120 V _{pc}
Maximum Charge Current		300 A
		30 kW
Maximum Output Power		
Battery Type		Lithium Ion
Output Protection		Over voltage, over current, short circuit, reverse connection
Parallel Operation		Pending
Standby Power ²		< 2 W
Environmental Co		
Operating	WPB WPP	+5 °C to +40 °C (41 °F to 104 °F)
Temperature ³		-40 °C to +70 °C (-40 °F to 158 °F)
Ctorogo Tomporo	WSU	-40 °C to +80 °C (-40 °F to 176 °F)
Storage Tempera	WPB	-45 °C to +70 °C (-49 °F to 158 °F)
Relative	WPP	5% to 85%, non-condensing 4% to 100%
Humidity	WSU	15% to 100%
Maximum Operat		3,000 m (9,842 ft)
	WPB	IP21
Ingress	WPP	IP69
Protection	WSU	IP69
Mechanical Desig	gn	
Pad Air-gap Range		105 ^{+/-5} to 155 ^{+/-5} mm (4.1 ^{+/-0.2} to 6.1 ^{+/-0.2} in)
Maximum Misalignment		± 50 mm (± 2.0 in) up/down and left/right
Dimensions	WPB	1020 x 550 x 400 mm (40.2 x 21.7 x 15.7 in)
	WPP	665 x 1020 x 65 mm (26.2 x 40.2 x 2.6 in)
$(L \times W \times H)$	WSU	565 x 735 x 50 mm (22.2 x 28.9 x 2.0 in)
	WPB	105 kg (231.5 lbs)
Weight	WPP	77 kg (169.7 lbs)
Weight	WSU	47 kg (103.6 lbs)
	WPB → WPP	5.0 m (196.8 in)
Cable Lengths	WSU (DC Output)	2.0 m (78.7 in)
	WSU Aux / Comms	0.5 m (19.7 in)
Cooling	WPB	Forced air
	WPP	Convection
	WSU	Convection
Status LED's		WPB & WPP, stack light interface

Approvals and Compliance	Europe (EEA/EFTA/UK)	USA	Canada
Safety Marks	CE	cMETus	
		UL 62368-1:2019 Ed.3 CSA C22.2 No.62368-1:2019 Ed.3	
Cofoty	EN 62368-1:2014 +		
Safety	A11:2017	UL 1564 Ed.4	
		CSA 22.2 No. 107.2-01	
	EN 303 446-2 V1.2.1		Pending
	EN 301 489-1 V2.2.3;	FCC part 18 subpart C	
5140	EN 301 489-3 V1.6.1		
EMC	EN 55011:2016 +		
	A1:2017+A11:2020		
	EN IEC 61000-6-2:2019		
RF	EN 300 330	FCC part 15 subpart C	Pending
		FCC Part 1.1307	
EMF	EN 62311	KDB 447498 D01	Pending
		KDB 680106 D01	
Interfaces			
Infrastructure	Ethernet		
Vehicle	CANopen®		
WPB connected to AC but not charging	3 Derating above	40 °C	

2 Secondary Unit connected to battery and not charging



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More information

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