

30 kW Wireless Charging System M Vair 30

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

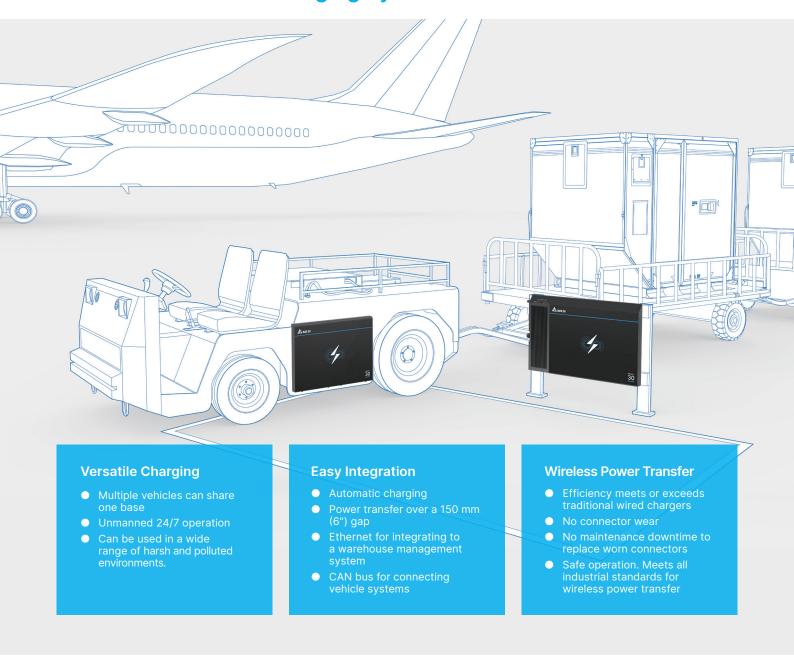








MOOV^{air}30 Wireless Charging System



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 _{DC}		
Maximum Charge Current		300 A		
Maximum Output Power		30 kW		
Battery Type		Lithium Ion		
Output Protection		Over voltage, over current, short circuit, reverse connection		
Parallel Operation		Pending		
Standby Power ²		< 2 W		
Charge Modes	Set points from vehicle	CANopen [®]		
Environmental Co				
Operating	WPB	+5 °C to +40 °C (41 °F to 104 °F)		
Temperature ³	WPP	-40 °C to +70 °C (-40 °F to 158 °F)		
	WSU	-40 °C to +80 °C (-40 °F to 176 °F)		
Storage Tempera		-45 °C to +70 °C (-49 °F to 158 °F)		
Relative	WPB	5% to 85%, non-condensing		
Humidity	WPP	4% to 100%		
Marrian on anat	WSU	15% to 100%		
Maximum Operating Altitude		3,000 m (9,842 ft)		
Ingress	WPB WPP	IP21 IP69		
Protection	WSU	IP69		
Mechanical Design		100		
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		
Maximum Misaligi		7 11		
Dimensions (L x W x H)	WPB	1020 x 550 x 400 mm (40.2 x 21.7 x 15.7 in)		
	WPP	666.6 x 1025.6 x 65.4 mm (26.2 x 40.4 x 2.6 in)		
	WSU	565 x 740 x 50.3 mm (22.2 x 29.1 x 2.0 in)		
Weight	WPB	105 kg (231.5 lbs)		
	WPP	77 kg (169.7 lbs)		
	WSU	47 kg (103.6 lbs)		
Cable Lengths	WPB → WPP	5.0 m (196.8 in)		
	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		
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Approvals and Compliance	Europe (EEA/EFTA/UK)	USA	Canada
Safety Marks	ety Marks CE		
		UL 62368-1:2019 Ed.3 CSA C22.2 No.62368-1:2019 Ed.3	
Cafaty	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	FCC part 18 subpart C	
	EN 301 489-1 V2.2.3;		
EMC	EN 301 489-3 V1.6.1		Pending
EIVIC	EN 55011:2016 +		Pending
	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	

3 Derating above 40 °C



More information

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¹ WPB connected to AC but not charging 2 Secondary Unit connected to battery and not charging