

## 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

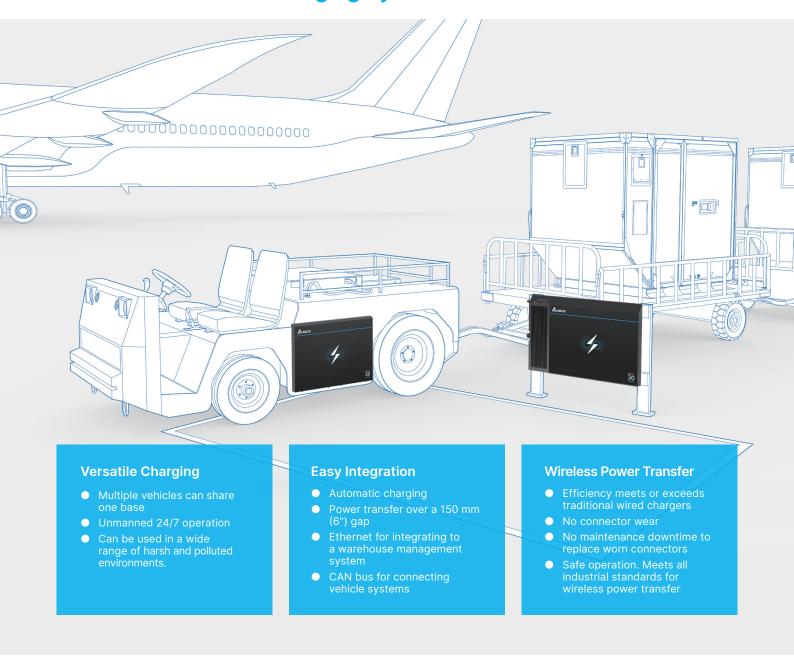








## MOOV<sup>air</sup>30 Wireless Charging System



## **Product Overview**



Primary Box (WPB)



Primary Pad (WPP)



Secondary Unit (WSU)

## **Specifications**

Product Line		MOOV <sup>air</sup> 30
AC Input		
AC Input Rated V	oltage	380 to 480 V <sub>AC</sub> 3PH
AC Input Voltage Range		342 to 528 V <sub>AC</sub> 3PH
AC Input Frequency		47 Hz to 63 Hz
Maximum AC Input Current		48 A
Power Factor (10		0.95
Peak Efficiency		> 95%
Standby Power <sup>1</sup>		≤ 10 W
DC Output		
DC Output Nomir	nal Voltage	100 V <sub>DC</sub>
DC Output Voltag	je Range	72 to 120 V <sub>DC</sub>
Maximum Charge	Current	300 A
Maximum Output Power		30 kW
Battery Type		Lithium Ion
Output Protection	١	Over voltage, over current, short circuit, reverse connection
Parallel Operation	1	Pending
Standby Power <sup>2</sup>		< 2 W
Charge Modes	Set points from vehicle	CANopen <sup>®</sup>
Environmental Co		
Operating	WPB	+5 °C to +40 °C (41 °F to 104 °F)
Temperature <sup>3</sup>	WPP	-40 °C to +70 °C (-40 °F to 158 °F)
	WSU	-40 °C to +80 °C (-40 °F to 176 °F)
Storage Temperature		-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 Operat		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)
	WPB	105 kg (231.5 lbs)
Weight	WPP	77 kg (169.7 lbs)
	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	
Cofoty	EN 62368-1:2014 +	CSA C22.2 No.62368-1:2019 Ed.3	
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 Pe	
	EN 301 489-1 V2.2.3;		
EMC	EN 301 489-3 V1.6.1		Donding
EMC	EN 55011:2016 +		Pending
	A1:2017+A11:2020		
	EN IEC 61000-6-2:2019		
RF	EN 300 330	FCC part 15 subpart C	Pending
	EN 62311	FCC Part 1.1307	
EMF		KDB 447498 D01	Pending
		KDB 680106 D01	

3 Derating above 40 °C

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<sup>1</sup> WPB connected to AC but not charging 2 Secondary Unit connected to battery and not charging