

10 kW Wireless Charging System M Vair 10

Highly efficiency wireless charging for industrial electric vehicles providing up to 275 A. Ideal for fast and opportunity charging.

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

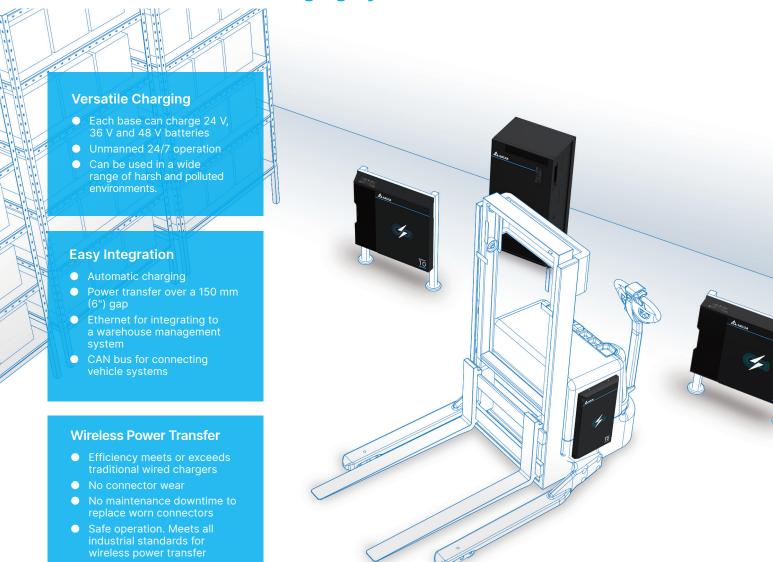








MOOV^{air}10 Wireless Charging System



Product Overview



Primary Box (WPB)



Primary Pad (WPP)



Secondary Unit (WSU)

Specifications

Product Line		MOOV ^{air} 10		
AC Input Pated V	oltage	380 to 480 V 3PH		
AC Input Rated Voltage AC Input Voltage Range		380 to 480 V _{AC} 3PH		
		342 to 528 V _{AC} 3PH		
AC Input Frequer		47 Hz to 63 Hz		
Maximum AC Inp		18 A		
Power Factor (100% Load)		0.95		
Peak Efficiency		> 92%		
Standby Power ¹ DC Output		≤ 10 W		
DC Output Nominal Voltage		24 & 36 V _{DC}	48 V _{DC}	
DC Output Voltag	ge Range	18 to 44 V _{DC}	36 to 60 V _{DC}	
Maximum Charge Current		275 A	200 A	
Maximum Output Power		10 kW		
Battery Protectio	n	Lithium Ion		
Output Protection		Over voltage, over current, short circuit, reverse connection		
Parallel Operation	า	Pending		
Standby Power ²		< 2 W		
Environmental C	onditions			
O = = = + i = = =	WPB	+5 °C to +40 °C (41 °F to 104 °F)		
Operating 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	ture	-45 °C to +70 °C (-49 °F to 15	8 °F)	
Relative	WPB	5% to 85%, non-condensing		
Humidity	WPP	4% to 100%		
Maximum Operat	WSU ing Altitude	5% to 85%, non-condensing		
Maximum Operat	WPB	IP21		
Ingress	WPP	IP69		
Protection	WSU	IP69		
Mechanical Desi		11 00		
Pad Air-gap Range		105 ^{+/-5} to 155 ^{+/-5} mm (4.1 ^{+/-0.2} to 6.1 ^{+/-0.2} in)		
Pad Air-gap Range Maximum Misalignment		± 50 mm (± 2.0 in) up/down and left/right		
	WPB	1,050 x 550 x 400 mm (41.3 x	1,050 x 550 x 400 mm (41.3 x 21.7 x 15.7 in)	
Dimensions	WPP	665 x 695 x 65 mm (26.1 x 27.4 x 2.6 in)		
(L x W x H)	WSU	565 x 327 x 50 mm (22.2 x 12.9 x 2 in)		
	WPB	107 kg (235.9 lbs)		
Weight	WPP	30 kg (66.1 lbs)		
	WSU	15 kg (33.1 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)		
	WPB	Forced air		
Cooling	WPP	Convection	Convection	
Cooling	WSU	Convection	Convection	
Status LED's		WPB & WPP, stack light interfa	ice	

Approvals and Compliance	Europe (EEA/EFTA/UK)	USA	Canada	
Safety Marks	CE	_c MET _{us}		
		UL 62368-1:2019 Ed.3		
Safety	EN 62368-1:2014 + A11:2017	CSA C22.2 No.62368-1:2019 Ed.3		
Salety	EN 02300-1.2014 + 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		Pending	
LIVIC	EN 55011:2016 +		rending	
	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 KDB 680106 D01	Pending	
Interfaces				
Infrastructure	Ethernet	Ethernet		
Vehicle	CANopen®			

3 Derating above 40 °C



Delta Energy Systems (Germany) GmbH

Tscheulinstrasse 21, 79331 Teningen E-mail: IEV.sales@deltaww.com

More information

www.deltaww.com



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