



3.3 kW Wireless Charging System

MOOV^{air} 03

Highly efficient wireless charging for industrial applications including electric vehicles.

- 3,300 W charging for 24V, 36V and 48V batteries
- Safe and robust
- Fully automated charging

3.3 kW Wireless Charging System

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

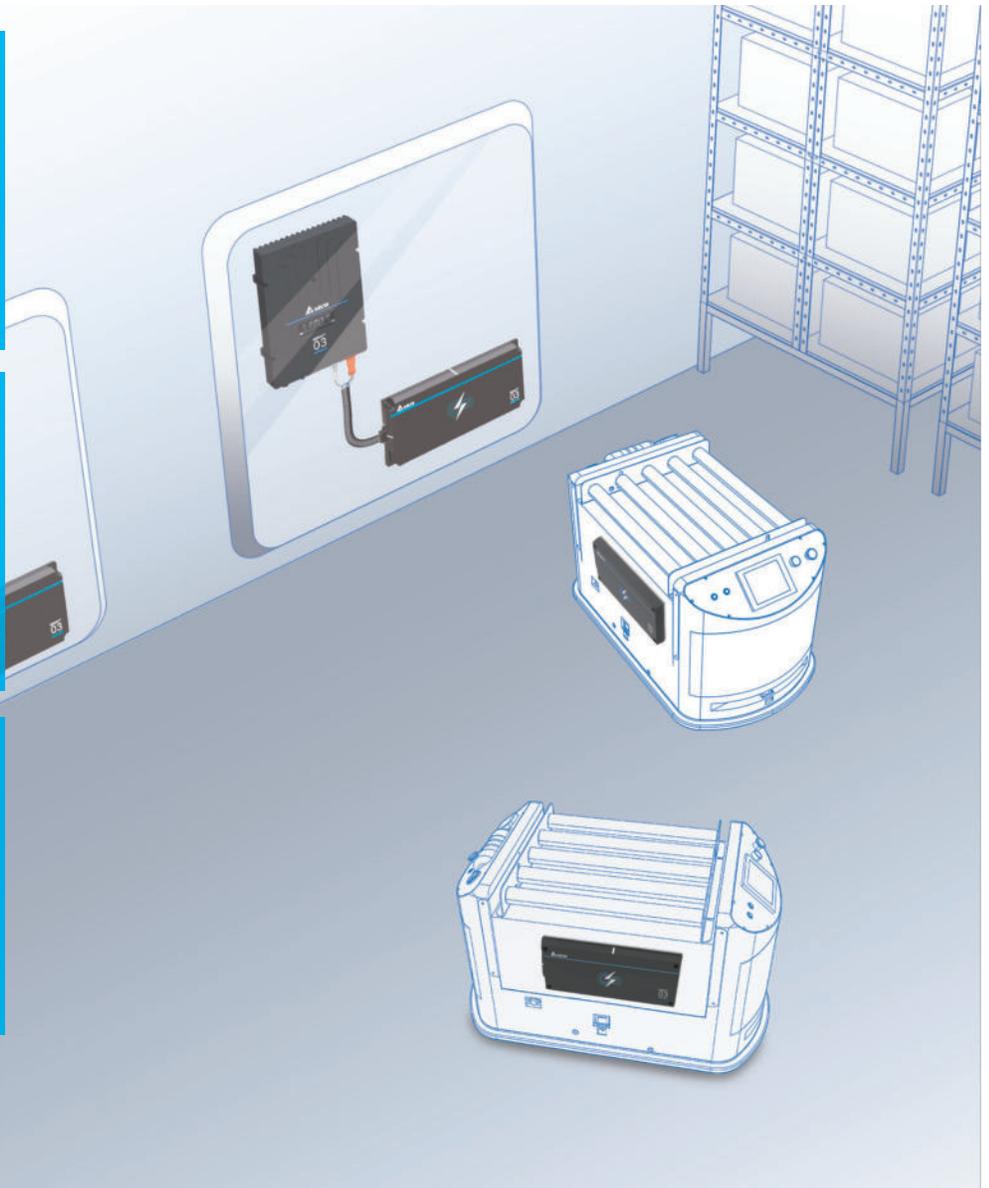
Versatile Charging

Charge any battery type

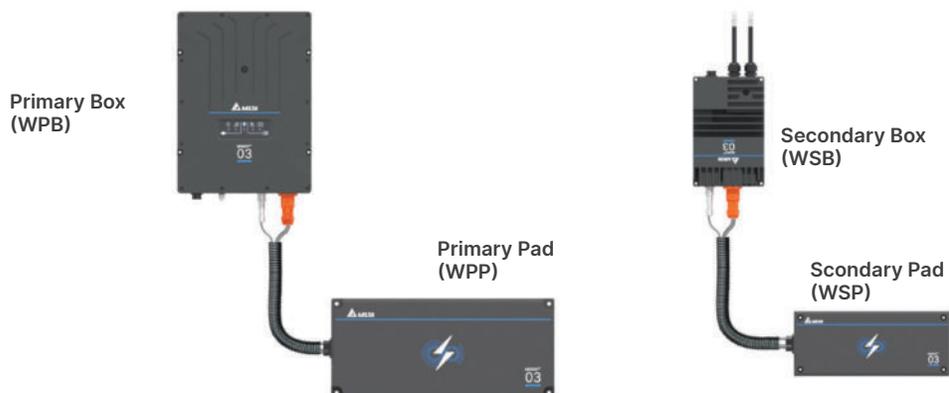
- Lithium or lead acid
- Option for temperature compensation
- Models for 24V, 36V and 48V batteries

Wireless Power Transfer

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



Product Overview



Specifications

Part Number		MOOV ^{air} 03	
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 A	66 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-programed 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

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