

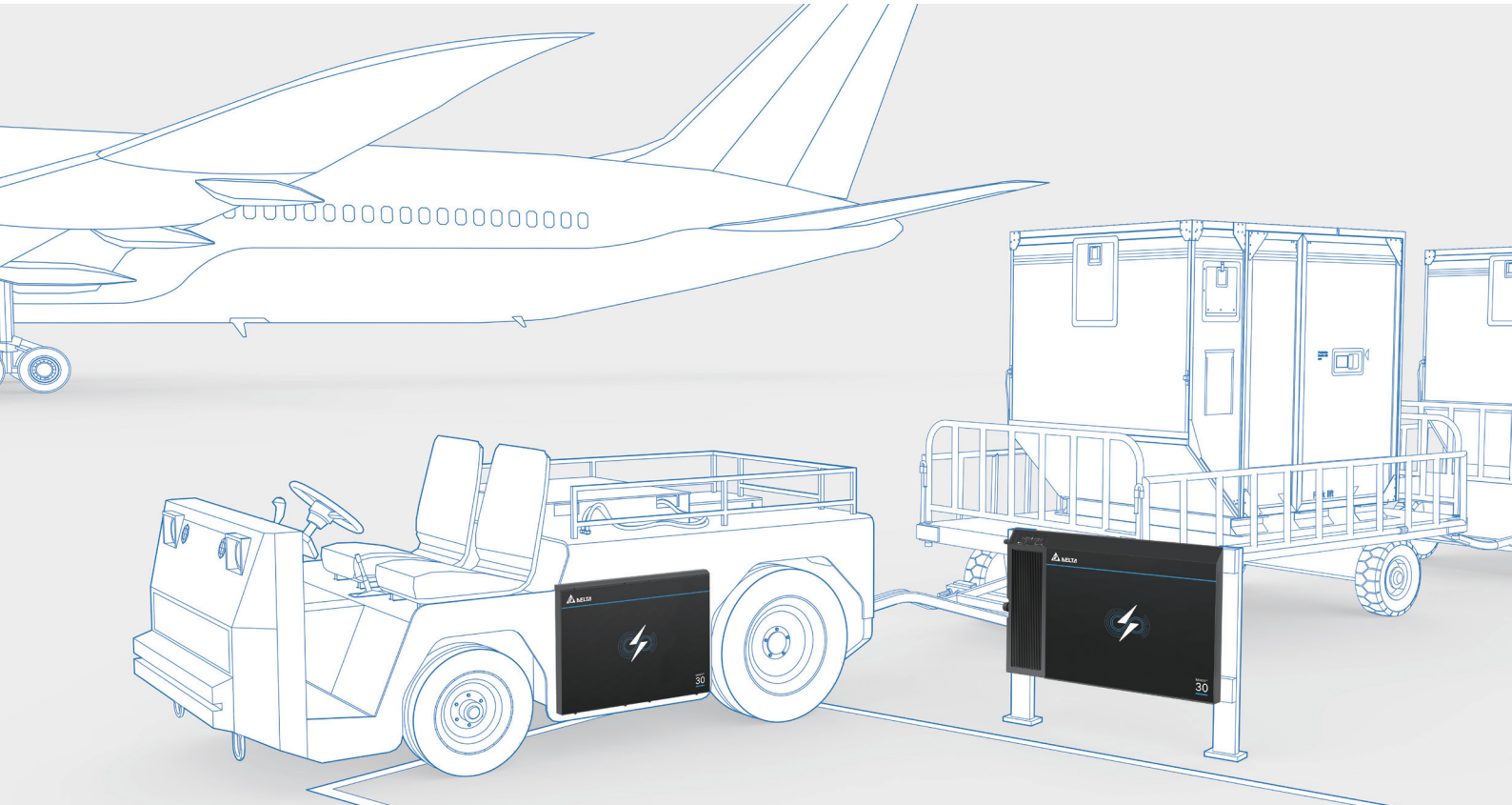
30 kW Wireless Charging System

MOOV^{air}

Highly efficiency contactless 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

30 kW Wireless Charging System



Versatile Charging

- Multiple vehicles can share one base
- Unmanned 24/7 operation
- Can be used in a wide range of harsh and polluted environments.

Easy Integration

- Automatic charging
- Power transfer over a 150 mm (6") gap
- Ethernet for integrating to a warehouse management system
- CAN bus for connecting vehicle systems

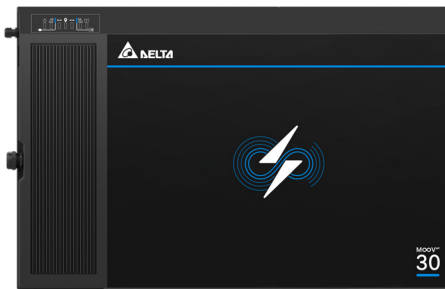
Contactless Power Transfer

- Efficiency meets or exceeds traditional wired chargers
- No connector wear
- No maintenance downtime to replace worn connectors
- Safe operation. Meets all industrial standards for wireless power transfer

Product Overview



Primary Box (WPB)



Primary Pad (WPP)



Secondary Unit (WSU)

Specifications

Part Number		30 kW		
AC Input				
AC Input Rated Voltage	380 to 480 V _{AC} 3PH			
AC Input Voltage Range	342 to 528 V _{AC}			
AC Input Frequency	50 / 60 Hz (45 to 65 Hz)			
Maximum AC Input Current	48 A			
Power Factor	0.95			
Peak Efficiency	> 95%			
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			
Output Protection	Over voltage, over current, short circuit, open circuit, reverse connection			
Environmental Conditions				
Operating Temperature	Primary Box	5 °C to +40 °C		
	Primary Pad	-40 °C to +70 °C		
	Secondary Unit	-40 °C to +80 °C (derated above 40 °C)		
Storage Temperature	-45 °C to +70 °C			
Relative Humidity	Primary Box	5% to 85%		
	Primary Pad	4% to 100%		
	Secondary Unit	15% to 100%		
Maximum Operating Altitude	3,000 m (6,651 ft)			
Mechanical Design				
Air-gap Range	100 to 150 mm (3.9 to 5.9 in)			
Maximum Misalignment	± 50 mm (± 2.0 in) up/down and left/right			
Dimensions (L x W x H)	Primary Box	1020 x 550 x 400 mm (40.2 x 21.7 x 15.7 in)		
	Primary Pad	665 x 1020 x 65 (26.2 x 40.2 x 2.6 in)		
	Secondary Unit	565 x 735 x 50 (22.2 x 28.9 x 2.0 in)		
Ingress Protection	Primary Box	IP21		
	Primary Pad	IP69		
	Secondary Unit	IP69		
Cooling	Primary Box	Forced air		
	Primary Pad	Convection		
	Secondary Unit	Convection / conduction		
Primary Box to Primary Pad cable length	5 m (16 ft 5 in)			
LED Indicators	WPP, WPB, stack light interface			
Approvals and Compliance		Europe	USA	Canada
Safety Marks	CE IEC 62368-1, edition 2 and 3	cMET _{US} UL1564, CSA C22.2 No. 107.2-01		
EMC	CISPR11, Group 2, Class A	CFR, Title 47, Part 15, subpart B, Class A CFR, Title 47, Part 18, subpart C		ICES-001 ICES-003 RSS-216
Communications Interface				
Infrastructure	Ethernet			
Vehicle	CANopen®			



More information

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