

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

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



Wireless Power  
Transfer



Forklift

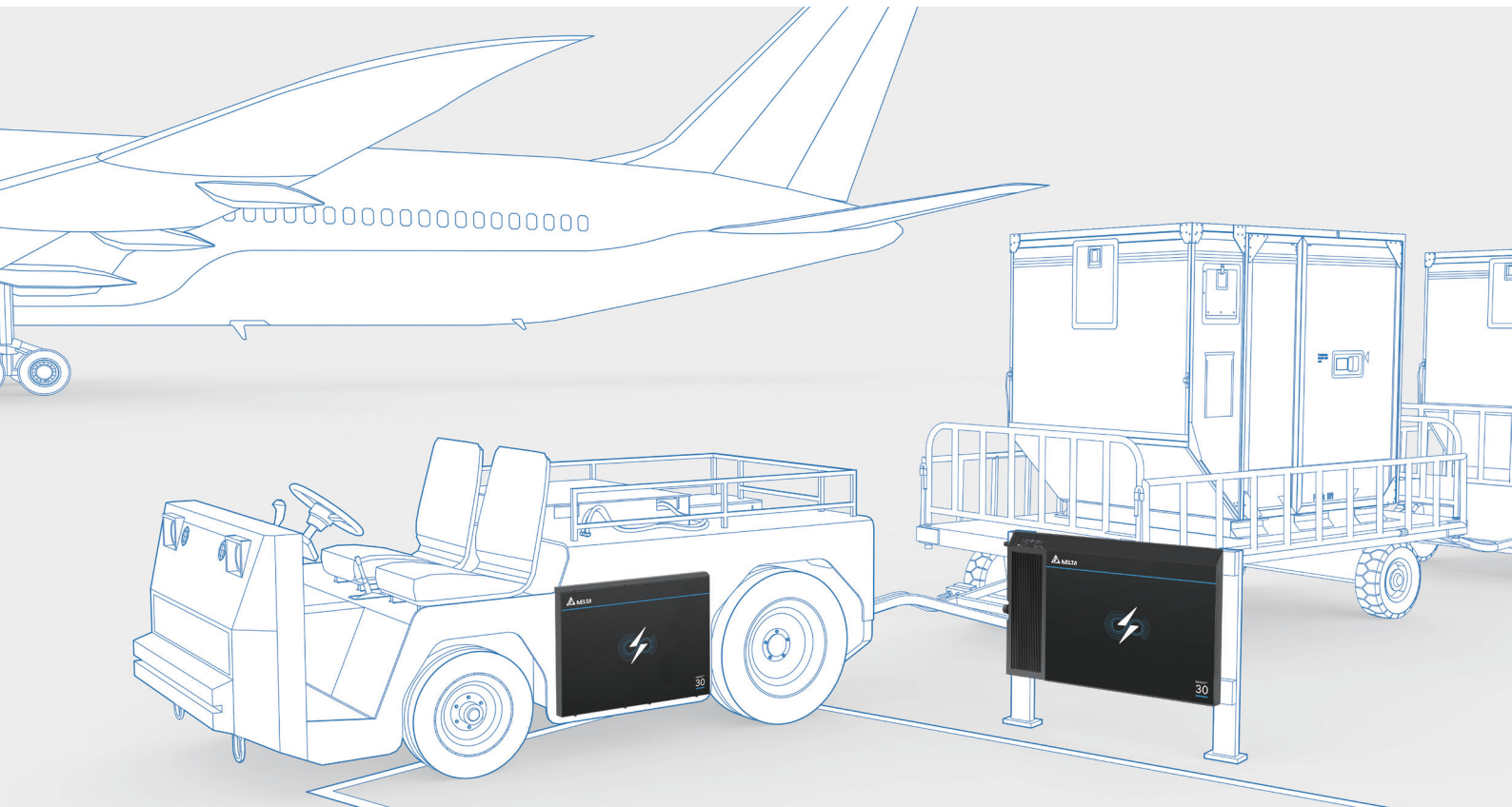


Industrial



Your Power House  
VP ELECTRONIQUE

# 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

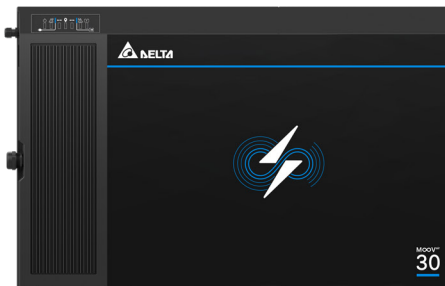
**Contactless Power Transfer**

- 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

<b>Part Number</b>		<b>30 kW</b>		
<b>AC Input</b>				
AC Input Rated Voltage	380 to 480 V <sub>AC</sub> 3PH			
AC Input Voltage Range	342 to 528 V <sub>AC</sub>			
AC Input Frequency	50 / 60 Hz (45 to 65 Hz)			
Maximum AC Input Current	48 A			
Power Factor	0.95			
Peak Efficiency	> 95%			
<b>DC Output</b>				
DC Output Nominal Voltage	100 V <sub>DC</sub>			
DC Output Voltage Range	72 to 120 V <sub>DC</sub>			
Maximum Charge Current	300 A			
Maximum Output Power	30 kW			
Output Protection	Over voltage, over current, short circuit, open circuit, reverse connection			
<b>Environmental Conditions</b>				
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)			
<b>Mechanical Design</b>				
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			
<b>Approvals and Compliance</b>		<b>Europe</b>	<b>USA</b>	<b>Canada</b>
Safety Marks	CE IEC 62368-1, edition 2 and 3	cMET <sub>US</sub> 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	
<b>Communications Interface</b>				
Infrastructure	Ethernet			
Vehicle	CANopen®			