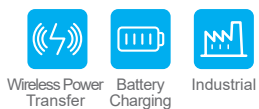


## Wireless Charging System 1 kW

Highly efficient contactless charging for industrial electric vehicles and AGVs.

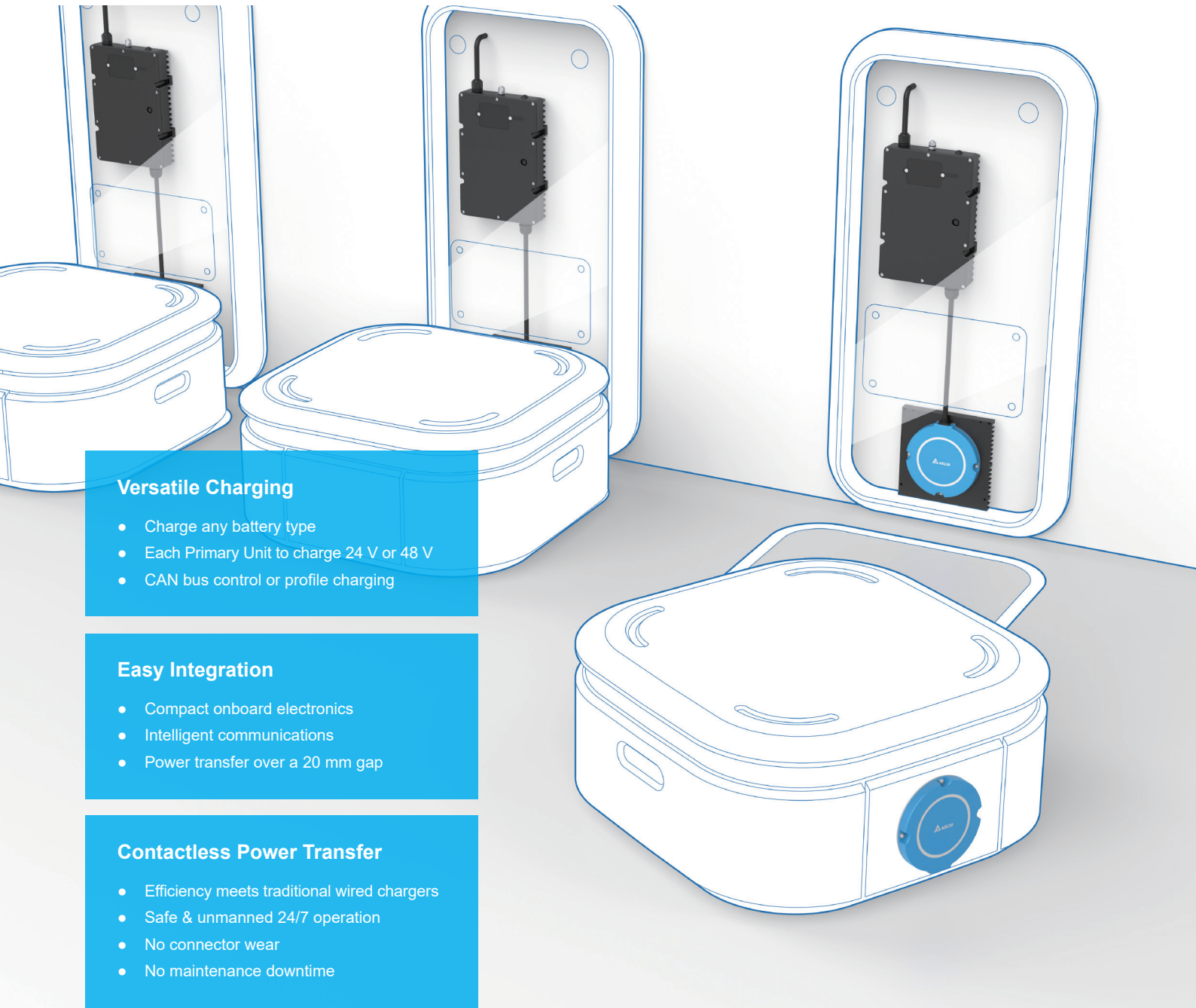
- No part wear
- Fully automated charging
- Low weight on vehicle



Wireless Power Transfer Battery Charging Industrial



# 1 kW Wireless Charging System



## Versatile Charging

- Charge any battery type
- Each Primary Unit to charge 24 V or 48 V
- CAN bus control or profile charging

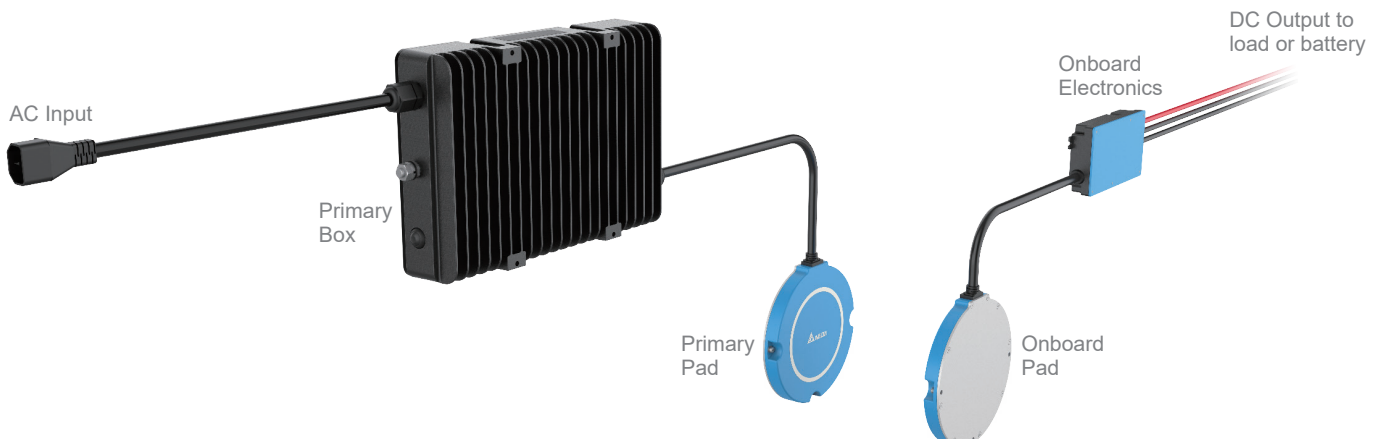
## Easy Integration

- Compact onboard electronics
- Intelligent communications
- Power transfer over a 20 mm gap

## Contactless Power Transfer

- Efficiency meets traditional wired chargers
- Safe & unmanned 24/7 operation
- No connector wear
- No maintenance downtime

## Product Overview



# Specifications

| AC Input                           |  |   |
|------------------------------------|--|---|
| AC Input Rated Voltage             | 100 to 240 V <sub>AC</sub> 1PH                                     |   |
| AC Input Voltage Range             | 85 to 265 V <sub>AC</sub>  |   |
| AC Input Frequency                 | 50 / 60 Hz (47 to 63 Hz)   |   |
| Maximum AC Input Current           | 13 A   |   |
| Power Factor (100% Load)           | > 0.95   |   |
| Peak Efficiency (100% Load)        | 92% (24 V version), 93% (48 V version)                             |   |
| DC Output                          |  |   |
| DC Output Nominal Voltage          | 24 V <sub>DC</sub>   | 48 V <sub>DC</sub>  |
| DC Output Voltage Range            | 12 to 32 V <sub>DC</sub>   | 24 to 60 V <sub>DC</sub>  |
| Maximum Charge Current             | 41.7 A   | 20.8 A  |
| Maximum Output Power               | 1000 W   |   |
| Battery Type                       | Lithium Ion, Lead Acid (AGM / GEL)                                 |   |
| Output Protection                  | Over voltage, over current, short circuit, reverse connection      |   |
| Parallel Operation                 | Current sharing with up to 4 chargers                              |   |
| Environmental Conditions           |  |   |
| Operating Temperature              | -20 °C to +50 °C (-4 °F to +122 °F)                                |   |
| Storage Temperature                | -40 °C to +85 °C (-40 °F to +185 °F)                               |   |
| Relative Humidity                  | 0% to 95%, non-condensing  |   |
| Maximum Operating Altitude         | 3000 m (9842 ft)   |   |
| Shock / Vibration                  | 25 g / 5 g   |   |
| Protection Degree                  | Wall Box   | IP65  |
|                                    | Pads   | IP65  |
|                                    | Onboard Electronics  | IP40  |
| Mechanical Design                  |  |   |
| Air-gap Range                      | 0 mm to 20 mm (0.8 in)   |   |
| Maximum Misalignment               | 20 mm (0.8 in)   |   |
| Dimensions (L x W x H)             | Primary Box  | 280 x 192 x 60 mm (11.0 x 7.6 x 2.4 in)   |
|                                    | Primary Pad and Onboard Pad  | Ø 160 x 19 mm (6.3 x 0.7 in)  |
|                                    | Onboard Electronics  | 168 x 82 x 28 mm (6.6 x 3.2 x 1.1 in)   |
| Cable Length (Primary Box)         | AC Input   | 970 mm (38.2 in)  |
|                                    | Primary Pad  | 1000 mm (39.4 in) typical   |
| Cable Length (Onboard Electronics) | DC   | 500 mm (19.7 in)  |
|                                    | Signals  | 50 mm (1.97 in)   |
|                                    | Onboard Pad  | 350 mm (13.8 in)  |
| Weight                             | Primary Box and Pad  | 5.4 kg (11.9 lb)  |
|                                    | Onboard Electronics and Pad  | 1.5 kg (3.3 lb)   |
| Cooling                            | Primary Box  | Natural convection  |
|                                    | Onboard Electronics  | Contact   |
| LED Indicators                     | Primary box  |   |
| Approvals and Compliance           |  |   |
| Safety marks                       | USA / Canada   | Europe  |
| Safety                             | cMET <sub>US</sub>   | CE  |
| Safety                             | UL 60950-1 / UL 62368-1<br>CAN/CSA C22.2 no. 60950-1 / no. 62368-1 | EN 60950-1, EN 62368-1  |
| EMC                                | FCC 15B, 18B, ICES-003, RSS-216, Class A <sup>1</sup>              | ETSI EN 301 489-1, ETSI EN 301 489-17, EN 55011, EN 61000-6-4, EN 61000-6-2, Class A <sup>1</sup> |
| RF                                 | FCC Part 15.247, FCC Part 15.209, RSS-247                          | ETSI EN 300 328   |
| EMF                                | EN 62311, IEEE C95.3   |   |

1) Class B available on request



More information

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