

NEW PRODUCT



1 kW Wireless Charging System MOOV^{air}01

Highly efficient wireless charging for industrial applications including electric vehicles and AGVs.

Versatile Charging

- Charge any battery type
- Each Primary Unit charges 24 V, 36 V and 48 V
- CAN bus control or profile charging
- Reliable and silent operation
- Fully automated charging

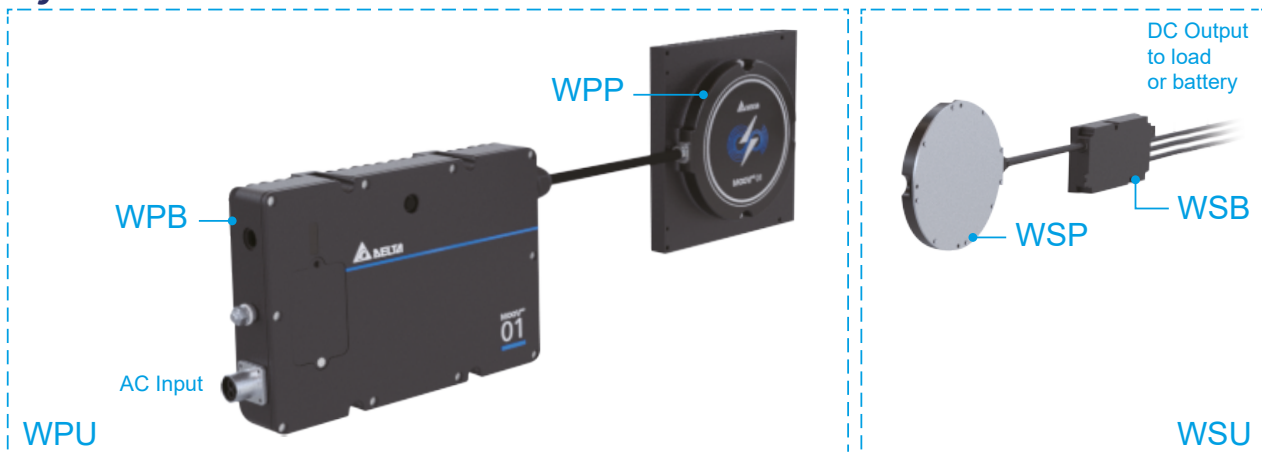
Easy Integration

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

Wireless Power Transfer

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

System Overview



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Specifications

AC Input			
AC Input Rated Voltage		100 to 240 V _{AC} 1PH	
AC Input Voltage Range		85 to 265 V _{AC}	
AC Input Frequency		50 / 60 Hz (47 to 63 Hz)	
Maximum AC Input Current		12 A	
Power Factor (100% Load)		> 0.95	
Peak Efficiency		92% (24 V version), 93% (48 V version)	
Standby Power ¹		< 8 W	
DC Output			
DC Output Nominal Voltage		24 V _{DC}	48 V _{DC} 36 V _{DC}
DC Output Voltage Range		12 to 30 V _{DC}	24 to 60 V _{DC} 18 to 45 V _{DC}
Maximum Charge Current		41.7 A	20.8 A27.7 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		Up to 4 chargers for a maximum of 4 kW	
Standby Power ²		< 2 W	
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	
Ingress Protection ¹	WPB	IP65	
	WPP and WSP	IP65	
	WSB	IP40	
Mechanical Design			
Pad Air Gap Range		0 mm to 20 mm (0.8 in)	
Maximum Misalignment		20 mm (0.8 in)	
Dimensions (H x W x D)	WPB	192 x 280 x 60 mm (7.6 x 11.0 x 2.4 in)	
	WPP and WSP	Ø 160 x 19 mm (6.3 x 0.7 in)	
	WSB	168 x 82 x 28 mm (6.6 x 3.2 x 1.1 in)	
Cable Length (WPB)	AC Input	960 mm (37.8 in)	
	WPP	1120 mm (44.1 in) typical	
Cable Length (WSB and WSP)	DC Output	500 mm (19.7 in)	
	Signals	100 mm (1.97 in)	
	WSP	380 mm (15 in)	
Weight	WPB and WPP	5.4 kg (11.9 lb)	
	WSB and WSP	1.5 kg (3.3 lb)	
Cooling	WPB	Natural convection	
	WSB and WSP	Contact	
Status LEDs		WPB	
Approvals and Compliance		USA / Canada	Europe
Safety marks		cMET _{us}	CE
Safety		UL 60950-1 / UL 62368-1 C A N / C S A C 22.2 n o . 60950-1 / no. 62368-1	EN 60950-1, EN 62368-1
EMC		FCC 15B, 18B, ICES-003, RSS-216, Class A ¹	ETSI EN 301 489-1, ETSI EN 301 489-17, EN 55011, EN 61000-6-4, EN 61000-6-2, Class A ¹
RF		FCC Part 15.247, FCC Part 15.209, RSS-247	ETSI EN 300 328
EMF		EN 62311, IEEE C95.3	

Notes: SPE reserves the right to modify without prior notice

1) Class B available on request

