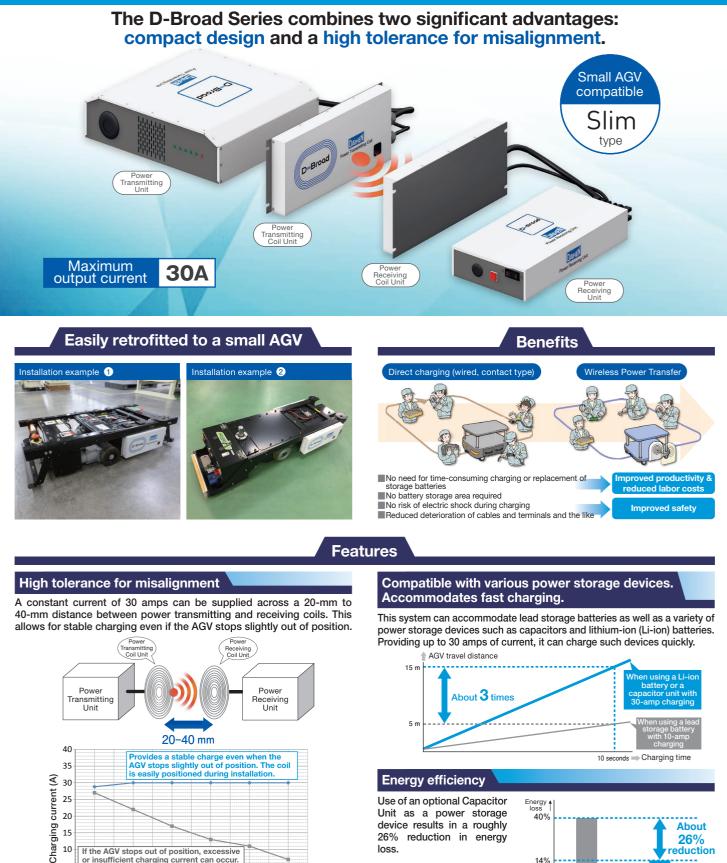


Wireless Power Transfer System for AGVs



device results in a roughly

26% reduction in energy

loss.

20 15 10 If the AGV stops out of position, excessive or insufficient charging current can occur. Such defective charging contributes to system failure and line failure. 5 0 20 25 15 30 35 40 Coil-to-coil distance (mm) - D-Broad - Competing

Wired charging eral-purpose wireless power transfer using a lead storage battery

14%

Ge

About

26%

D-Broad

eduction

DIM Broad Slim type Wireless Power Transfer System for AGVs

Configuration

Power Transmitting Unit 1	
Power Transmitting Coil Unit (Includes 1-m cable for connecting to Power Transmitting Unit) 1	
Power Receiving Coil Unit (Includes 1-m cable for connecting to Power Receiving Unit)1	

- Power Receiving Unit ······
- Capacitor Unit (optional)

Specifications

Coil Units

Common to all units

Distance between Power

Permissible tolerance for

misalignment of AGV stop

Required power supply capacity

Rated power factor

Dimensions (W \times D \times H)

Weight

Transmitting and Receiving

· 30 mm ±10 mm Operating temperature rar	0–40°C	
Charging current remains constant even as the distance changes. Operating humidity range	20-80% (No condensation)	
Storage temperature range	ge -20-55°C	
Charging current remains constant even if the stop position deviates by ±10 mm.	20-80% (No condensation)	

position (direction of travel) **Power Transmitting Unit** Number of phases 3-phase 50/60 Hz Rated input frequency 200 V ±10% Rated input voltage 2 kW Rated input power

> 2.3 kVA 0.9 or higher

6 kg

Power Receiving Unit			
Output voltage range	12–52.5 V		
Maximum output current	30 A		
Weight	2.5 kg		
Dimensions (W \times D \times H)	$350 \times 180 \times 60$ mm (Excluding projections)		

Power Transmitting Coil Unit			
Weight	2.5 kg		
Dimensions (W \times D \times H)	$380\times38\times150$ mm (Excluding projections)		

 $343 \times 421 \times 130$ mm (Excluding projections)

Power Receiving Coil Unit			
Weight	2.5 kg		
Dimensions (W \times D \times H)	380 \times 38 \times 150 mm (Excluding projections)		

Optional

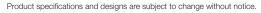
57F Capacitor Unit				
Capacity	57F			
Output voltage range	24 V ±10% or 48 V ±10%			
Maximum output current	67.2 A (24 VDC), 33.6 A (48 VDC)			
Weight	20 kg			
Dimensions (W \times D \times H)	$260 \times 346 \times 284$ mm (Excluding projections)			

171F Capacitor Unit	
Capacity	171F
Output voltage range	24 V ±10% or 48 V ±10%
Maximum output current	67.2 A (24 VDC), 33.6 A (48 VDC)
Weight	40 kg
Dimensions (W \times D \times H)	398 \times 500 \times 359 mm (Excluding projections)

Precautions for Use

	Use	only	in	а	drv	location.

- Do not use in a location exposed to direct sunlight.
- Never place metallic objects between power
- transmitting and receiving coils.
- Use this system as a complete set. (Never combine with components from another manufacturer's wireless power transfer system.)
- During wireless power transfer, remain outside a 50-cm radius of the Power Transmitting Coil Unit. Before installation, obtain a permit for use of high-frequency equipment.





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