



WaveXP1200 Wireless Charging System for Fast Opportunity Contactless Charging of Autonomous Mobile Robots

PEWC's WaveXP1200 wireless charging system is the ideal solution for Fast Opportunity Contactless Charging in AMR operations. The system wirelessly delivers 1.2kW of reliable power without the drawbacks and limitations of contact-based charging systems. The Base Unit (BU) installed along the AMR operating path automatically charges the battery when the Mobile Unit (MU) on the AMR is positioned within range. With contactless design and ingress protection, WaveXP1200 wireless charging system is safe to be installed virtually anywhere. The BU is placed at specific spots corresponding to in-process opportunity charging, such as on the factory floor or on the wall near loading zones.

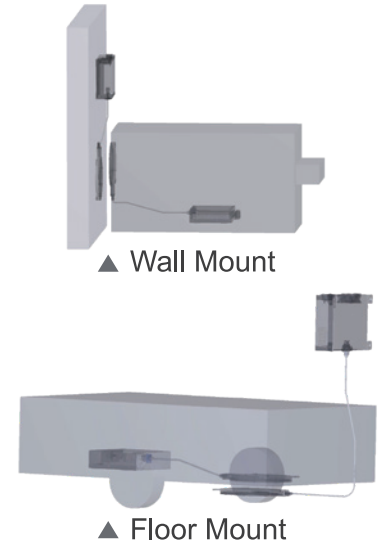


Benefits

- ➔ **INSTANT ON**
1.2kW automatically in less than a second
- ➔ **MAINTENANCE FREE**
No wear and tear or contacts to clean
- ➔ **SPATIAL FREEDOM**
0-30mm distance, + / - 30mm offset, 5° surface angle
- ➔ **SAFE**
No exposed metal electrodes or spark risk
- ➔ **OMNIDIRECTIONAL**
Full 360° operation

Features

- ➔ 1.2kW Contactless AMR Battery Charging Capability
- ➔ Industry Leading High Charging Efficiency (>93%)
- ➔ Minimum Charging Overhead with <1s Startup Time
- ➔ High Tolerance to Misalignment
- ➔ IP65 Thin Charging/Receiving Pad for Ease of Mounting & Installation
- ➔ Ideally Suited for In-Process/Clean-room AMR Charging for Uninterrupted 24/7 AMR Operation



The BU and MU interoperability of WaveXP1200 wireless charging system allows for easy expansion or upgrades to the AMR fleet. Additional charging points and factory floor areas can be easily added to expand and streamline operations. With interoperability, updated or new vehicles can utilize the existing BU infrastructure.

Specification

Input Voltage (BU)	196~264VAC
Output Power (MU)	1.2kW
Output Voltage (MU)	31~58VDC
Output Current (MU)	22.4A @ 54VDC
Charging Efficiency	>93%
Ingress Protection	BU/MU Cores: IP20 BU/MU Pads: IP65
Battery Compatibility	All, Lithium, LFP, LTO

The AMR can be operated continuously with no downtime through opportunity charging. Battery size reduction is also possible, saving cost and minimizing the weight on the AMR.

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*Product information and specifications are subject to change. Please refer to our website