

XENERGY BE SERIES

3kW-9kW Contactless Charging System



WIRELESS CHARGING FOR MOBILE ROBOTS & AGV TRUCKS

Xenergy BE Series provides cost effective fast charging solutions for autonomous mobile robots, AGVs & Electric vehicles wirelessly.

With a quick calibration, the AMR now runs non-stop on any battery type. The modular design of the Xenergy receiver allows for the charging of higher powered robots by simply stacking in parallel.

Deep-tech made easy and scalable. CHARGE FAST. WORK MORE.

- ✓ Scalable Universal charging platform
- ✓ Increased Safety & AGV uptime
- ✓ World's widest airgap 7cm



Key Features

- Small Size: 20cm x 20cm
- Large airgap: 2cm to 7cm
 - Tolerance: ± 5 cm
- Large Voltage range: 16V to 60V
- Support all battery types
 - CE-Mark
- Light weight: 1kg to 2.3kg
- Battery Optimization Dashboard
- Large Current range: 10A to 90A per module
 - Maximum stackable total current: 270A
- Communication: Auto-turn ON, CANBUS, MODBUS, GPIO

BENEFITS

Universality

One-charger-for-all Mobile Robots of all voltages <60V and support all type of batteries chemistries in the same environment. This eliminates legacy issues for flexible scaling.

Tolerance

Wider air gap capability eliminates the need for robotic precision parking, thereby reducing robotic deployment costs and facilitates opportunity charging to improve robotic uptime more than 30% with 24/7 non-stop system operation.

Besides, No contact = No maintenance efforts.

Easy adoption

Plug & Play with flexible installation allow users to deploy the charger easily on the robot without major modification, design your own way either vertical or horizon installation

Cost effective

No labor needed, increase ROI and reduces >50%* cost of CAPEX & OPEX.

High efficiency

Widest airgap with full power guaranteed.

Smart Software Solution

Supporting smart fleet management through real-time data acquisition and monitoring of operating conditions

Highest Safety

CE-Mark certified by TUV-SUD

Approvals

Safety

EN 62368-1:2020/A11:2020

Human Exposure

EN 62311:2020

Radio

ETSI EN 300 328 v2.2.2:2019

EU Wireless standard

ETSI EN 303 417 v1.1.1:2017

EMC

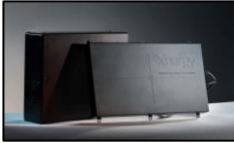
EN 301 489-1 V2.2.3:2019
 EN 301 489-17 V3.2.4:2020
 EN 61000-3-2:2019
 EN 61000-3-3:2013
 EN 55011:2016+A1 :2017



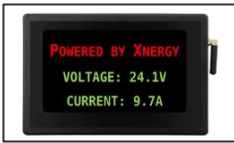
ORDERING INFORMATION

**Order code: RX2409BE-0A00 / RX4805BE-0A00****Xenergy Receiver Charging Unit 24V / 48V**

A single component small receiver that install easily into the AGV or mobile robots.

**Order code: TX30BE-1A00****Xenergy Transmitter Powering Unit come with transmitter pad**

Design your own way within your process. The transmitter can provide both high efficiency and large tolerance, thus accurate positioning is no longer required.

**Order code: XG-HMI7-G****Xenergy Display Module**

A HMI device and smart module that can be easily install and setup by connecting directly to the Xenergy Transmitter Powering Unit using the provided RJ45 cable, by showing the charging information, error codes and provide continuous remote support on firmware update.

**Order code: XDC 3100 / XDC 3110 (IP54)****Xenergy Docking Charger, 3kW**

A complete charging station for transmitter powering unit and transmitter pad to be portable with a display module (CM-VE-A) which will display the wireless charging information and error codes. The LEDs to indicate the quick visual status of the wireless charging operation. The XDC3110 Ingress Protection design is ideal for outdoor deployment.

**Order code: XDC 3300****Xenergy Universal Transmitter Charging Station**

A complete solution for transmitter powering unit and transmitter pad to be universally capable of wireless charging the receiver charging unit (RCU) installed at the robots automatically with RMF (*Robotics Middleware Framework*) interoperability. The display module & LEDs to indicate the quick visual status of the wireless charging operation.

**Order code: XDC 6000 / XDC 9000****Xenergy Docking Cabinet for AGV trucks max output power 9kW**

A complete charging station for transmitter powering unit and transmitter pad in parallel set up come with the display module (CM-VE-A) showing the wireless charging information and error codes. The tower light to indicate the quick visual status of the wireless charging operation from far end in the warehouse. Robust & reliable turnkey charging solution for warehouse AGV, wirelessly powered by Xenergy.

Not all products, features, or services are for sale in all countries.

For details, please visit www.xenergytech.com/xenergy-catalogue/



“ Our AMR has designed in Xnergy’s wireless charging solution and the experience was great! The technical team gave us strong support to ensure our design and integration was done well and easy. Xnergy’s charging solution will help businesses achieve Universality, basically having only the need of one-charger-for-all. This is especially so as we have more adoption of different robots in the same environment. ”

“Our operational needs have been met so far with the Xnergy charging technology put in place, the effective contactless charging also helps to save time during our egress and ingress (important for emergency responders)”

“ New way of charging our AGV forklift in our warehouse, it very safe even comparing to contact charger. I believe our AGV can work more now due to fast charge and online charging ”



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2020 APAC 25 COMPANY

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