

# Powerbox announces power solution for high speed e-commerce hub conveyers

**Press Release**  
**March 05, 2019**

- Designed for factory automation and intelligent conveyers
- Three phase input, 323 to 560VAC
- 24V, 250W with 480W peak power for motor start or high capacitive loads
- High ingress protection level for harsh environments (IP54)
- Up to 94% efficiency

**Powerbox, one of Europe's largest power supply companies, and for more than four decades a leading force in optimizing power solutions for demanding applications, announces the introduction of its ENI250A series designed to deliver peak power to motor start or/and high capacitive loads in factory automation applications. The three-phase ENI250A series is housed in an IP54 case, delivers a constant 250W and up to 480W peak power with an efficiency up to 94%. The ENI250A includes a microcontroller that offers many possibilities to adjust protection behavior to meet specific customer requirements.**

Factory automation is already well established in many industries, but with the progress in Artificial Intelligence (AI), remote communication and the growing demand for shorter customer lead times, it is predicted to explode in coming years. Similarly, the growth of automated parcel-hubs is expected to rise spectacularly. The rapid development of e-commerce has contributed to the creation of highly automated hubs with conveyers, sorting switches and many other equipments requiring efficient and intelligent power solutions able to work in demanding environments.

Parcel hub-designers and hub-operators are facing multiple challenges in having to deal with a large variety and types of equipment. This not only requires high quality, high performances power supplies, but the ability to operate in harsh environments with a complex mix of mechanical, thermal and electrical constraints.

“Designed to meet such demanding requirements with built in high Ingress Protection (IP) for harsh environments, Powerbox's three-phase ENI250A is not only a robust and efficient power solution but a mechanically reconfigurable platform able to fit different form factors or even direct integration into DC motors. “ Said Martin Fredmark, Powerbox's VP Portfolio Management. “Equipped with a micro controller, functions like peak power, current limiting, protection mode and behavior, and others can easily be set to suit customers' specific needs, shortening time to operation and conveyer upgrades.”

Addressing 24VDC motors, the 250W ENI250A24 can deliver 480W peak power for one second, sustain high capacitive loads and manage energy recycling when a DC motor is decelerating or stopping. This function is very important for energy saving and to increase equipment life-time. For higher power or

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redundancy, the ENI250A24 can simply be paralleled. The unit has an operating temperature range from -25 to +70 degree Centigrade.

Other output voltages are available on demand to power 36V, 48V DC motors, as well customized voltages.

The ENI250A24 includes soft-start, over current, voltage and temperature protection. An LED indicator informs the status of the power supply and a DC-OK signal and remote reset provide for easy integration within the conveyer operation management system. It is designed using Powerbox's reliable power platform concept and uses an active power factor correction (PFC) in combination with a high efficiency and compact LLC topology.

Exhibiting versatility, the ENI250A24 accepts input voltages from 323VAC to 560VAC three phase, and is designed to meet safety specifications 60950-1 and 62368-1. EMC is in accordance with EN61000-6-3 and EN61000-6-2.

Housed in an IP54 case, the ENI250A24 has dimensions of 250x160x55mm, weighs 1.5Kg and mounting brackets are available for easy installation. Designed for easy integration within customers' equipment, the ENI250A platform can be factory re-configured to fit specific form-factors.

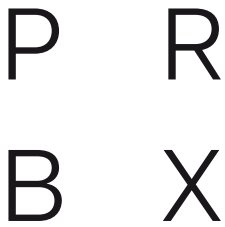


Picture source: PRBX

**PRBX ENI250A24 designed for high speed e-commerce hubs conveyers**

**Related link:**

Powerbox (PRBX) ENI250A24 module  
<https://www.prbx.com/product/eni250a/>



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**About Powerbox**

*Founded in 1974, with headquarters in Sweden and operations in 15 countries across four continents, Powerbox serves customers all around the globe. The company focuses on four major markets - industrial, medical, transportation/railway and defense - for which it designs and markets premium quality power conversion systems for demanding applications. Powerbox's mission is to use its expertise to increase customers' competitiveness by meeting all of their power needs. Every aspect of the company's business is focused on that goal, from the design of advanced components that go into products, through to high levels of customer service. Powerbox is recognized for technical innovations that reduce energy consumption and its ability to manage full product lifecycles while minimizing environmental impact. Powerbox is a Cosel Group Company.*

**For more information**

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