

P R
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POWERBOX
ENI250A24



Power for factory automation

AC/DC three phase solutions offer high IP class protection for harsh environment.

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 customers lead times, it is predicted to explode in coming years. Similarly, the growth of automated parcels-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 equipment requiring efficient and intelligent power solutions able to work in demanding environment.

Parcels hub designers and operators are facing multiple challenges in having to deal with a large variety and types of equipment. One problem is being able to guarantee hub operation 24/7 with no downtime. This requires very high reliability levels in all parcel handling equipment



from 'In to Out'. 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. Hub operators also require simple, painless solutions when it comes to maintenance and upgrades, which translated into power supplies requirements means the communications interface, IP54, the ability to deliver peak power and even to manage energy recycling.

Designed to meet such demanding requirements with built in high Ingress Protection (IP) for harsh environments, Powerbox's three-phase ENI250A24 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.

The ENI250A24 is equipped with a micro controller to manage functions and protective circuits. Functions like peak power, current trip and others can easily be set to suit customers' specific needs. It offers a peak power level up to 480W for startup of electrical motors or relays. Mounting brackets available for easy installation, with no need for additional casing.

The ENI250A24 is designed using Powerbox's reliable power platform concept and uses a high efficiency power factor correction (PFC) in combination with a compact resonant topology. Customer benefits include low power losses and a compact, flexible solution.

Features

- High capacitive load
- DC-OK
- Remote reset
- Peak power
- Efficiency up to 94%
- Soft start <6A
- Paralleling for increased power or redundancy
- IP54
- LED status indicator
- Custom features by microcontroller
- Warranty, customer choice 1-5 year

Input

- 323-560VAC 3phase

Output

- 24VDC, other voltages on request
- Power 250W
- Peak power 480W, 1s

Environmental

- Operating temp. -25°C to +70°C, derate above 50°C

General

- Over current protection
- Over temperature protection
- Over voltage protection
- Safety 60950-1, 62368-1
- EMC, EN61000-6-3, EN61000-6-2



About this Product Flyer

The intention of this flyer is to describe the capabilities from Powerbox. The product in this flyer is only an example of different power solutions we are able to offer to the market. Please contact Powerbox for the optimal power solution to your application.

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.

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