

A modern office interior with a mezzanine level. The walls are made of glass with horizontal blinds. The office space is visible through the glass, showing desks, computers, and office furniture. In the foreground, there is a beige sofa and a large potted plant.

“eBusiness” Solutions


Energy Storage Solutions for Businesses and Commercial Setups

eBusiness is a turnkey energy storage solution, developed for businesses that suffer from regular extended blackouts, brownouts, and poor electricity supply

eBusiness solves it all in one system. It provides backup power with extended runtimes up to 18 consecutive hours, and regulates voltage and frequency to protect equipment from unstable electricity.

eBusiness seamlessly integrates with solar PV or other auxiliary sources to minimize energy costs while optimizing runtime and improving productivity.

S320E



**“Finally, no
more power
cuts or
swings, ever.”**



Why eBusiness?

Global gap in energy supply

With rapid demographic and economic growth, demand for electricity is ever-increasing, and with it the gap between energy supply and demand. Electricity production from fossil fuels is the largest source of greenhouse gas emissions and will continue to grow as more people are connected to the grid. With the time and resources required to upgrade grid capacity, it is becoming harder for utilities to stabilize the availability of energy on the grid. In some countries, the supply-demand gap, and oftentimes utility mismanagement have led to a situation where utilities must ration available power through regular blackouts.

Global Challenges

With utilities resorting to financial measures such as Time of Use billing (TOU), Capacity Billing, and Low Power Factor Surcharges (LPFS) to influence consumption, businesses' energy bills continue to grow higher.

Additionally, blackouts and brownouts create a burden and added expenses for business owners. Most of the time, people resort to diesel generators that are inconvenient on several levels:

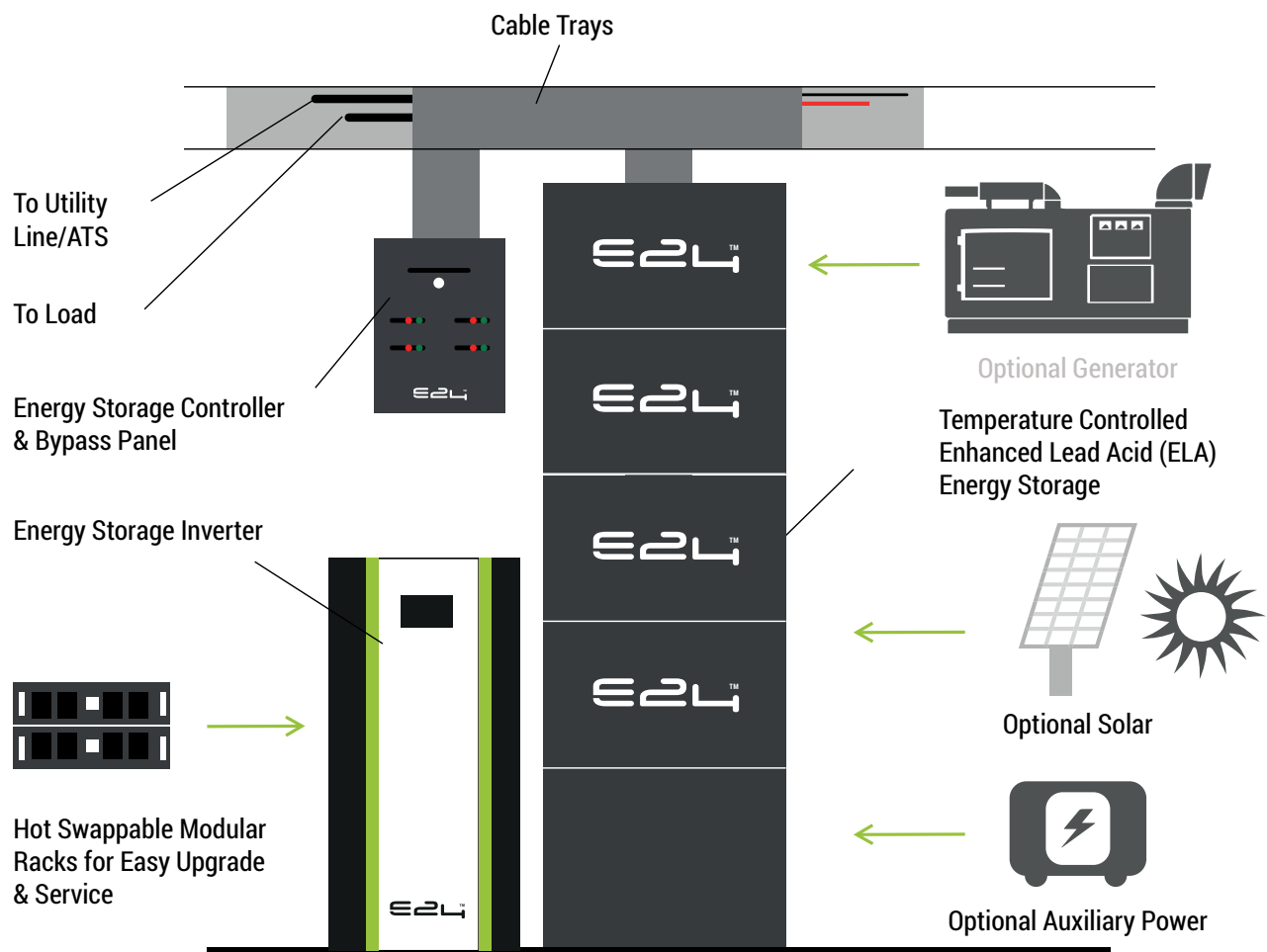
- They are costly to buy, refuel and maintain
- They create air and noise pollution and are harmful in residential and commercial environments
- They require space, regular maintenance and repetitive refuelling

A Cost-effective Solution

eBusiness overcomes these problems by providing a fully integrated energy storage system that allows you to monitor consumption and control and optimize when different energy sources are used. eBusiness acts as a backup power source in times of blackouts or peak billing periods and guarantees substantial savings over any fuel based alternative while improving power quality, removing noise and environmental pollution, and limiting human intervention. With its uninterrupted power provision, eBusiness protects sensitive equipment and data servers and overcomes the hassle of lost data and connectivity, allowing business to thrive.



eBusiness: A New Concept



eBusiness is cost effective and versatile. It is particularly designed for offices, restaurants and other commercial setups that suffer from recurrent blackouts and brownouts. Its main functionalities include:

Continuous, Uninterrupted Power

When utility power fails, eBusiness provides uninterrupted electricity to your load (with zero transfer time), keeping equipment safe and connected at all times. It does this through a fully online 24/7 system which delivers power and stores energy from multiple possible sources, including optional solar panels and electricity from the grid. This overcomes the need for an expensive, polluting diesel generator.

If available, your generator remains a last resort power source that the eBusiness system starts automatically in the rare event that consumption is beyond the capability of the eBusiness system selected.

Voltage and Frequency Regulation

Utility companies sometimes provide fluctuating voltage and frequencies, which can damage equipment and electrical systems. eBusiness provides voltage and frequency regulation to protect home appliances.

Smart Integration with Renewable Energy

eBusiness is easily compatible with solar PV panels or wind energy. Its smart system allows it to prioritise solar or wind energy before resorting to electricity from the grid. When batteries are full, eBusiness automatically sends any unused energy to the grid, reducing your bills in the process.



Designed for your Needs

eBusiness' demonstrated benefits make it the ideal all in one solution for your energy needs, saving money and facilitating productivity in the process:

Uninterrupted supply

eBusiness' centralized system provides uninterrupted power during blackouts, keeping you connected with zero transfer time.

Substantial Cost Savings

eBusiness saves on your energy bills, with a lower cost of operation compared to diesel generators, and achieving the greatest savings when coupled with solar PV.

Safe and Reliable

eBusiness regulates input voltage fluctuating between 154V to 280V while maintaining a steady output of 220V. Frequency is also stabilized at 50Hz from 45 to 55Hz.

Calm and Clean

eBusiness allows you to avoid the use of noisy, polluting diesel generators that release harmful gases.

Resilient

eBusiness is conceived in a manner to bypass itself in case of a failure in order to avoid disconnecting the utility supply.

Resilient & Redundant

eBusiness includes added inverter capability to keep you connected in the rare case of failure. Its hot swappable technology allows replacing malfunctioning parts without ever disconnecting the system.

Unattended operation and low maintenance

eBusiness includes a smart system which automatically switches between power supplies and manages energy storage, requiring very low maintenance. Its remote monitoring tools allow our technicians to ensure smooth operation and get notified in case of any issues.

Adaptable & Compatible

eBusiness is easily compatible with PV panels or existing auxiliary power sources, and includes technology to automatically start any available generator in case of extended blackouts beyond storage capability.

Eco-friendly image and values

Choosing solar energy demonstrates a commitment to lowering carbon emissions. eBusiness improves your image, sending a message of environmental responsibility.

Modular and Upgradable

eBusiness' modularity means that it is possible to add more inverters in parallel to increase power and reliability, and more battery modules to increase backup time, dynamically grows with your evolving energy needs.

Plug and Play

E24 technology is supplied in prepackaged boxes allowing systematic assembly without external components.

Health Comes First

Diesel generators pose dangers to the health and wellbeing of staff:

- Toxic gases have a direct effect on the respiratory system, posing a variety of diseases
- Fine particle pollution contributes to ashtma, emphysema, chronic heart and lung disease.
- Exposure to diesel exhaust poses high risks of cancer.
- Engine produces irritating audible noise
- Exhaust contributes to smog creation.



Enhanced Productivity

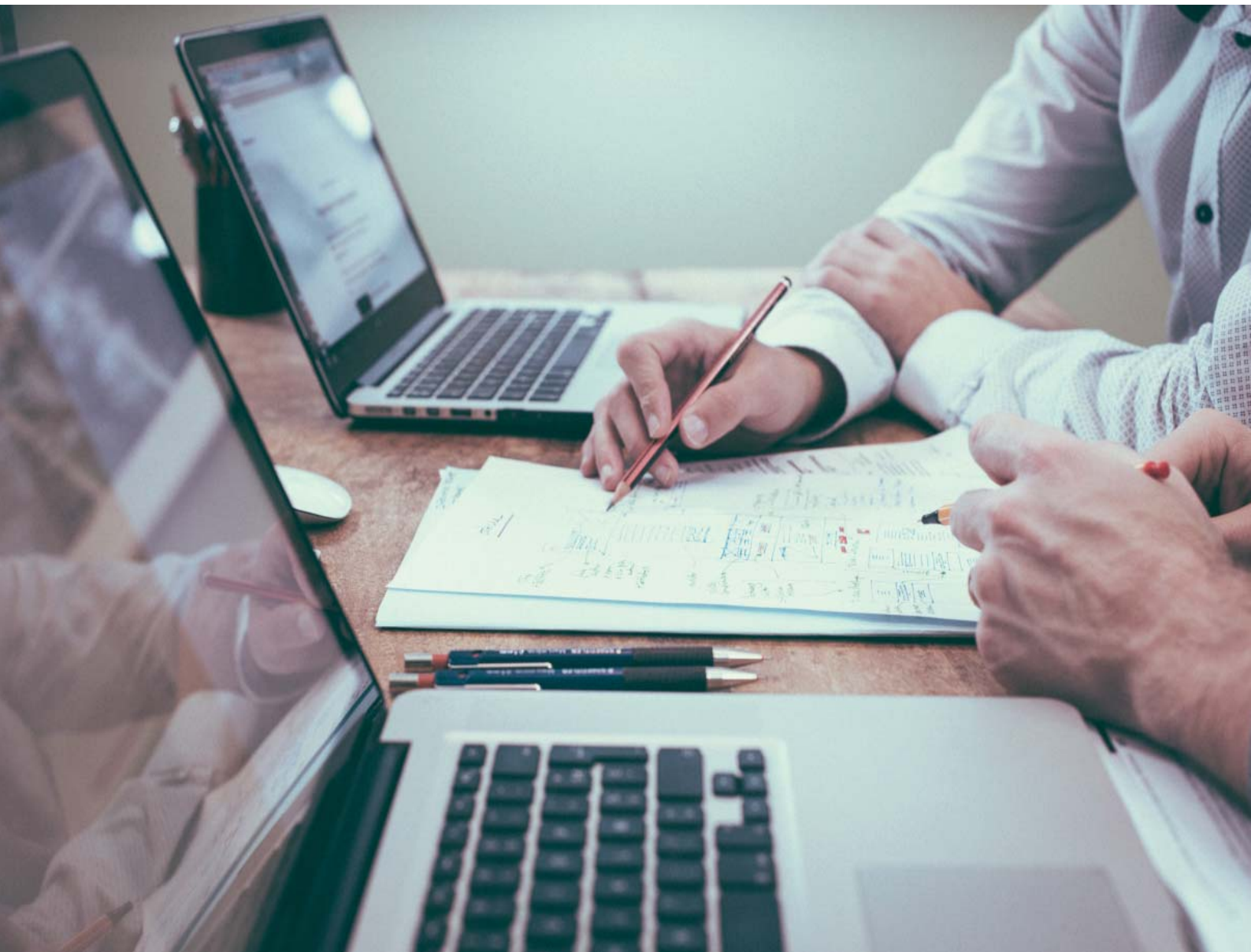
There are multiple operational advantages that eBusiness has over diesel generators

Generator

- High operational cost
- Air & noise pollution
- Continuous maintenance
- Power cut between utility and generator
- Minimum 30% load
- Bulky (fuel tank and exhaust required)
- Continuous refueling
- Narrow temperature operation (deration)

eBusiness

- Low operational cost
- Silent and non polluting
- Low maintenance
- Reliable
- Stable voltage and frequency
- Can be installed in any space
- Install once - replace batteries every 6 to 10 years
- Wide temperature operation
- Ready to be coupled with Solar PV



eBusiness Applications

E24's eBusiness is optimally designed for businesses in areas or countries where the utility power is intermittent, unstable or both. It also targets businesses with sensitive operations or data servers where power interruptions cannot be tolerated.

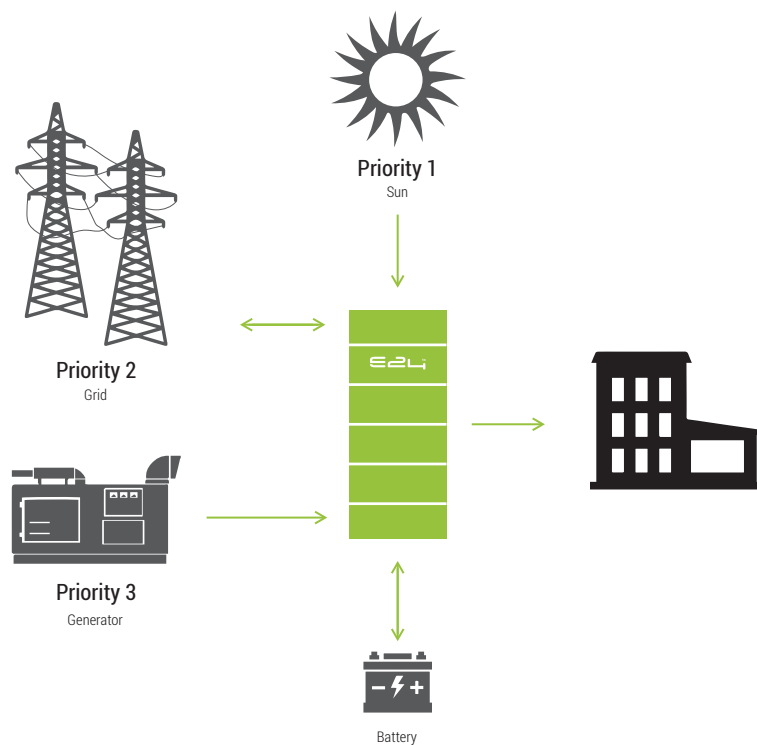
eBusiness can also be used where utilities resort to financial measures to affect the price of electricity at different times of the day. Through its storage system, eBusiness allows business owners to avoid high tariffs, and benefit from the lowest tariffs, saving on energy bills.

To guarantee continuous operation, the highest cost savings, and extended battery life, it is always recommended to couple eBusiness with E24's solar solutions. eBusiness is always sized to your requirements as recommended by our energy consultants.

How Does eBusiness Save On Your Energy Bills?

eBusiness's smart system collects and stores energy from multiple sources according to their availability and lowest cost.

- eBusiness reduces the reliance on and overcomes the need for expensive diesel generators
- eBusiness stores solar energy for use during blackouts and peak billing periods, saving on energy bills.
- eBusiness captures and utilizes all solar energy produced. Unlike pure solar solutions, eFactory's storage allows you to capture 100% of solar energy and store it for future use.
- eBusiness protects your equipment from damage due to unstable or intermittent electricity, and ensures that raw material is not damaged or wasted.
- eBusiness returns excess solar energy to the grid, saving on utility bills through net metering.
- eBusiness corrects your power factor, avoiding power factor surcharges and additional costs.



eBusiness reduces cost of energy by selecting automatically the cheapest available source of energy at any one time.

Remote Cloud Monitoring

eBusiness includes a state of the art web management tool allowing you to visualize and closely monitor the sound operation of your energy solution, control energy sources and load consumption. eBusiness also includes the ability to monitor energy consumption by department.

The control system logs data from solar panels, utilities, loads and optional generators. All data is recorded, and history can be downloaded for analysis, keeping you in control of your energy generation and spending.

eBusiness is connected to the E24 cloud based monitoring system, allowing the technical support team to remotely manage your system and take immediate preventive action in case of anomalies, keeping your investment safe.



Advanced Control Tools



eBusiness includes an optional cloud-based control and monitoring system, allowing you to visualize all energy data in real time.

E24 Proprietary Control & Monitoring System

E24's proprietary control software optimizes power generation to increase energy efficiency and cost savings. It actively selects the most affordable source of energy and can return excess solar energy to the grid through net metering.

Smart Management

An advanced battery management system allows up to 5000 cycles of battery life making it the most affordable energy storage on the market. eBusiness handles the surges, sags, noise and blackouts while providing a clean energy to the load 24/7 without any interruption.

Easy integration with Generators

eBusiness includes the controls and intelligence that allow it to operate safely in the presence of back-up generators, such as avoiding its operation at very low load, which causes damages, and avoiding reverse power feeding. eVilla automatically starts your generator in the event where battery is low or where the load exceeds the capability of the installed system.

E24 Quality Pledge



E24 is the result of 30 years' experience in the field of energy generation, conversion and storage technology. E24 designs and manufactures the most durable, efficient and reliable energy solutions on the market tailored for the most demanding applications and locations around the world.

E24 designs, engineers, manufactures, assembles, tests and delivers its solutions in modular components that are easy and cost-effective to assemble on customer's premises.

E24 commissions its solutions through a network of affiliates or business partners under strict quality standards and procedures to ensure the highest optimal performance and customer's satisfaction.

E24 continuously invests in R&D and develops its own proprietary technology. Each part of the energy solution supplied is optimized to bring the highest customer value.

All solutions are designed to bring a fast and headache-less capital recovery and high return on investment.

E24 Comprehensive Services

Our turnkey approach is what sets us apart. In addition to our complete solutions, we offer a variety of services, allowing you to make the most of your investment:

- **Site Assessment Visits**
- **Energy Saving Analyses**
- **Feasibility Studies**
- **Structural Designs**
- **Multi-Level Training Programs**
- **Commissioning Services**
- **Financing Services**

E24 works closely with its clients to look at all aspects of their energy-related costs and performance, identifying opportunities for improvement and potential to lower overall costs.

E24 also offers a number of financing services allowing customers to pay for their equipment gradually and partially finance their investments from the savings they generate.

With support centers, regional offices, and knowledgeable personnel, E24 brings an uncompromising commitment to customer satisfaction. Our after sales services include:

- **Warranty Extension Programs**
- **Comprehensive Maintenance Programs**
- **Field Service**
- **Overhaul & Refurbishments**
- **E24 certified parts**

Our services are provided by engineers operating from E24 regional offices, allowing customers to benefit from accurate data based on relevant local field experience.

Our Energy Consultants are here to answer all your questions.



Complimentary Solutions

Make the most of your eHome solution by coupling it with one of our energy generation solutions to achieve the greatest value and cost savings.

eSolar



If you decide to forego storage and just require energy generation, eSolar is the right choice for you.

eHybrid



eHybrid can be easily coupled with eBusiness or any E24 storage solution, adding a solar energy generation capability to your system. This reduces energy costs further and prolongs the life of your storage system.

eParking Hybrid



If your home contains unused parking space, eParking Hybrid makes the most of it by providing solar energy generation, reducing costs and prolonging the life of your eBusiness system.

Energy Storage Solutions



eHome



eVilla



eBuilding



eBusiness



eFactory



eVillage



eTelecom



eGrid

Energy Generation Solutions



eSolar



eHybrid



eParking



eAgri

Comprehensive Energy Solutions

E24's broad portfolio of successfully completed projects ranges across a variety of sectors including Residential, Commercial, Industrial, Telecom and Governmental. We have built our reputation on our client focus and versatility to solve their problems. Our tailored solutions that place the lifestyle and needs of customers at their core. E24 leverages technology as a problem solver and enabler.

It is in this spirit that E24 develops targeted, personalized, seamless energy solutions for homes, villas, businesses, buildings, factories, villages, telecom and utility operators. E24 is constantly working towards enhancing the economics and lifestyle of its customers while saving on the planet.

Ordering Information

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Ref Number	Description
E320-750-02I	Energy Storage Solution, eBusiness Series, 3x250A @ 0.9 Pf, 289kWh, 220V, 50/60Hz, 2Hrs. Runtime @ 50% Load
E320-750-04I	Energy Storage Solution, eBusiness Series, 3x250A @ 0.9 Pf, 480kWh, 220V, 50/60Hz, 4Hrs. Runtime @ 50% Load
E320-750-06I	Energy Storage Solution, eBusiness Series, 3x250A @ 0.9 Pf, 662kWh, 220V, 50/60Hz, 6Hrs. Runtime @ 50% Load
E320-750-08I	Energy Storage Solution, eBusiness Series, 3x250A @ 0.9 Pf, 773kWh, 220V, 50/60Hz, 8Hrs. Runtime @ 50% Load
E320-750-12I	Energy Storage Solution, eBusiness Series, 3x250A @ 0.9 Pf, 994kWh, 220V, 50/60Hz, 12Hrs. Runtime @ 50% Load
E320-900-00I	Energy Storage Solution, eBusiness Series, 3x300A @ 0.9 Pf, 75kWh, 220V, 50/60Hz, 15 Min Runtime @ 50% Load
E320-900-02I	Energy Storage Solution, eBusiness Series, 3x300A @ 0.9 Pf, 361kWh, 220V, 50/60Hz, 2Hrs. Runtime @ 50% Load
E320-900-04I	Energy Storage Solution, eBusiness Series, 3x300A @ 0.9 Pf, 576kWh, 220V, 50/60Hz, 4Hrs. Runtime @ 50% Load
E320-900-06I	Energy Storage Solution, eBusiness Series, 3x300A @ 0.9 Pf, 773kWh, 220V, 50/60Hz, 6Hrs. Runtime @ 50% Load
E320-900-08I	Energy Storage Solution, eBusiness Series, 3x300A @ 0.9 Pf, 994kWh, 220V, 50/60Hz, 8Hrs. Runtime @ 50% Load
E320-900-12I	Energy Storage Solution, eBusiness Series, 3x300A @ 0.9 Pf, 1214kWh, 220V, 50/60Hz, 12Hrs. Runtime @ 50% Load



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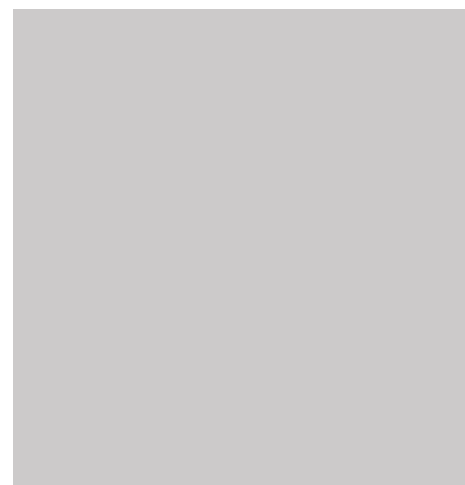
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AUTHORIZED RESELLER



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