



“eHome” Solutions


Energy Storage Solutions for Small Apartments

eHome is a turnkey energy storage solution, developed for homeowners who suffer from regular extended power cuts.

eHome protects your home from power failures and cuts, providing extended runtimes up to 18 consecutive hours.

E24's eHome can be coupled with solar PV to minimize energy costs while optimizing runtime. It seamlessly integrates with existing setups and optional auxiliary power sources to minimize energy costs while improving quality of life.

S300E

A modern living room with a large window overlooking a green landscape. In the foreground, there is a beige armchair and a white side table. A floor lamp with two adjustable shades is positioned near the window. The room is brightly lit, suggesting a sunny day.

“Finally, a cost-effective solution that allows me to use my solar panels during a power cut.”

Why eHome?

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, homeowners' energy bills continue to grow higher.

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

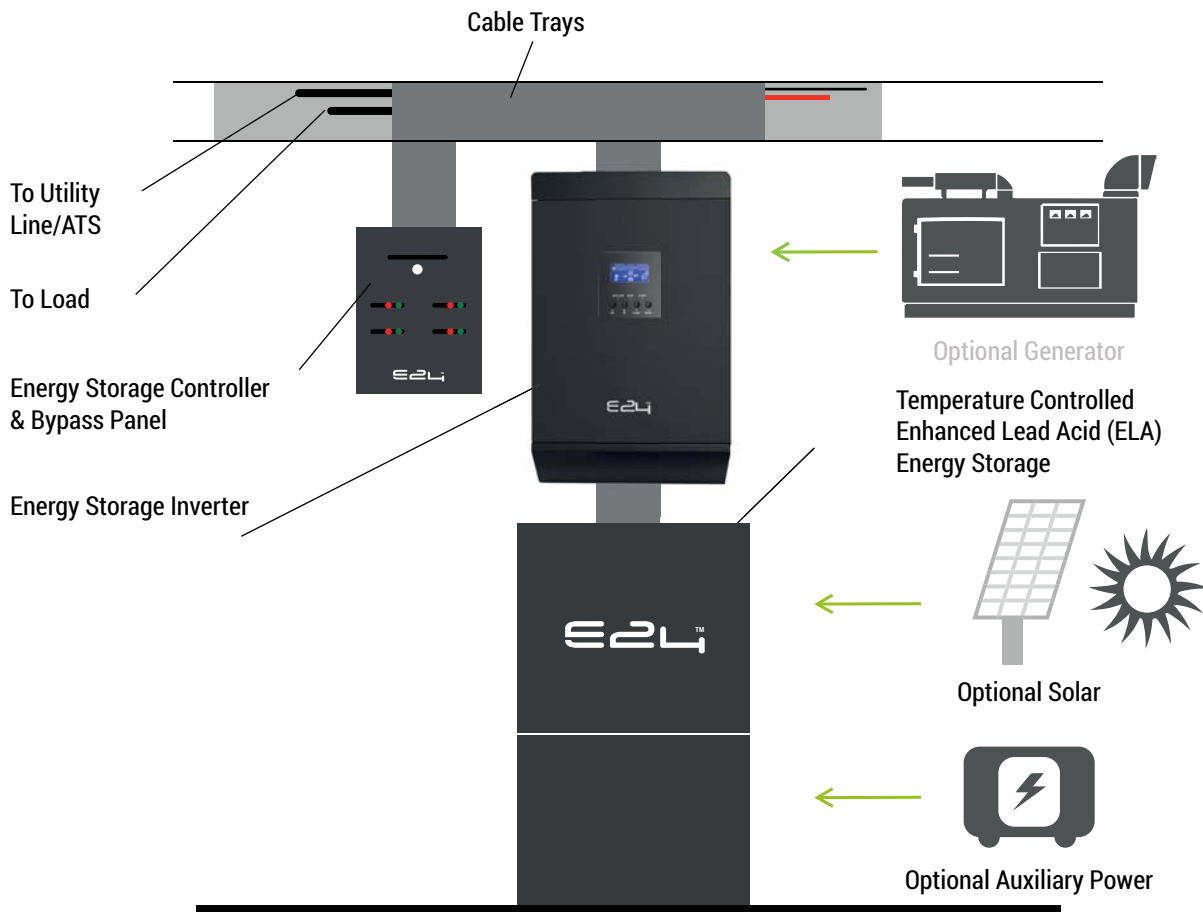
- They are costly to buy, refuel and maintain
- They create air and noise pollution and are harmful in residential environments
- They require space, regular maintenance and repetitive refuelling

A Cost-Effective Solution

eHome overcomes these problems by providing a compact, fitted backup energy storage system, reducing energy costs and eliminating blackouts in the process. eHome 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.



eHome: A New Concept



eHome is a cost effective and compact turnkey solution, particularly designed for homes that suffer from recurrent blackouts. Its main features include:

Continuous Power & Quick Switch to Backup Mode

When utility power fails, eHome quickly switches to backup batteries (10ms transfer time) in a way that you never see it happen. It does this through a backup system which 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 and the cumbersome maintenance it requires.

Integration with Renewable Energy

eHome is easily compatible with solar PV panels or wind energy to charge the backup system, reducing your bills in the process.

Compact & Cost-effective

eHome is a cost-effective energy storage solution that allows you to store energy in priority from solar panels, and then from the grid. Its compactness and pre-engineered box design means it can fit any small or mid-sized apartment without the need for additional storage rooms or roof space.

Modular & Upgradable in Power and Runtime

eHome's 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. eHome dynamically grows with your evolving energy needs.



Designed for your Needs

eHome includes a variety of features that make it easy to use and improve your quality of life.

Substantial Cost Savings

eHome allows you to save on energy bills, with a lower cost of operation compared to diesel generators. eVilla achieves even greater savings when coupled with solar PV.

Calm and Clean

eHome allows you to avoid the use of noisy, polluting diesel generators that release harmful particulates and green house gases.

Adaptable & Compatible

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

Unattended operation and low maintenance

eHome is a standalone system that automatically manages energy storage, requiring very low maintenance.

Eco-friendly image and values

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

Plug and Play

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

Health Comes First

Installing diesel generators in residential areas is harmful to health and wellbeing

- Toxic gases have a direct effect on the respiratory system, posing a variety of diseases
- Fine particle pollution contributes to asthma, emphysema, chronic heart and lung disease, with elderly and young people being more sensitive.
- Exposure to diesel exhaust poses high risks of cancer.
- Engine produces irritating audible noise
- Exhaust interaction with other particles in the air contributes to smog creation.

Enhanced Quality of Life

There are multiple operational advantages that eHome 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)

eHome

- 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





eHome Applications

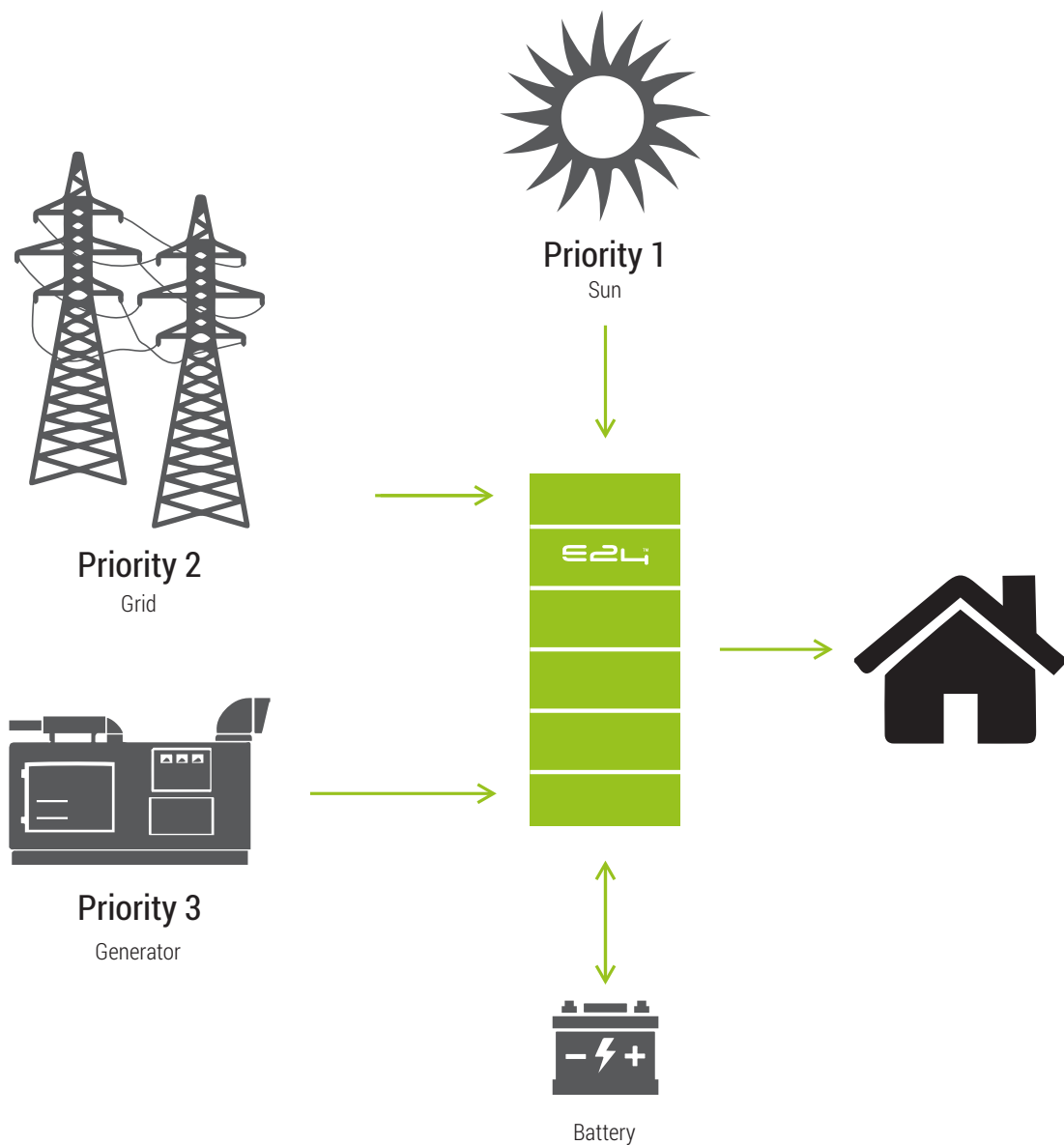
eHome is optimally designed for homes in areas or countries where utility power is intermittent. Its advantage is in its compactness and ability to be placed even in small apartments, providing a cost-effective back up power source in times of blackouts.

eHome is sized to your requirements as recommended by our energy consultants. It is ideal for loads of 20A to 40A. To guarantee continuous operation, the highest cost savings, and extended battery life, it is always recommended to couple eHome with one of E24's solar generation solutions.

How Does eHome Save on Your Energy Bills?

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

- eHome overcomes the need for expensive diesel generators and generator subscriptions.
- If available, eHome can benefit from solar energy to store batteries, reducing the cost of energy further.
- eHome stores solar energy for use during blackouts, saving on energy bills.



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.

eParking



If your home contains no roof space or if you wish to park your car in the shade while your parking generates electricity for your home, as your E24 Reseller for the option to add an eParking option to your solution. When connecting solar energy generation to your eHome storage system, you substantially reduce your electricity costs and prolong the life of your eHome storage 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

Ref. Number	Description
S300-1X10-02I	Energy Storage Solution, eHome Series, 1x10A @ 1 Pf, 6kWh, 220V, 50/60Hz, 2Hrs. Runtime @50 % Load
S300-1X10-07I	Energy Storage Solution, eHome Series, 1x10A @ 1 Pf, 12kWh, 220V, 50/100Hz,7Hrs. Runtime @50 % Load
S300-1X10-10I	Energy Storage Solution, eHome Series, 1x10A @ 1 Pf, 18kWh, 220V, 50/100Hz, 10Hrs. Runtime @50 % Load
S300-1X10-14I	Energy Storage Solution, eHome Series, 1x10A @ 1 Pf, 24kWh, 220V, 50/100Hz, 14Hrs. Runtime @50 % Load
S300-1X13-05I	Energy Storage Solution, eHome Series, 1x13A @ 1 Pf, 12kWh, 220V, 50/60Hz, 5Hrs. Runtime @50 % Load
S300-1X13-08I	Energy Storage Solution, eHome Series, 1x13A @ 1 Pf, 18kWh, 220V, 50/60Hz, 8Hrs. Runtime @50 % Load
S300-1X13-11I	Energy Storage Solution, eHome Series, 1x13A @ 1 Pf, 24kWh, 220V, 50/60Hz, 11Hrs. Runtime @50 % Load
S300-1X13-14I	Energy Storage Solution, eHome Series, 1x13A @ 1 Pf, 30kWh, 220V, 50/60Hz, 14Hrs. Runtime @50 % Load
S300-1X22-02I	Energy Storage Solution, eHome Series, 1x22A @ 1 Pf, 12kWh, 220V, 50/60Hz, 2Hrs. Runtime @50 % Load
S300-1X22-05I	Energy Storage Solution, eHome Series, 1x22A @ 1 Pf, 24kWh, 220V, 50/60Hz, 5Hrs. Runtime @50 % Load
S300-1X22-09I	Energy Storage Solution, eHome Series, 1x22A @ 1 Pf, 36kWh, 220V, 50/60Hz, 9Hrs. Runtime @50 % Load
S300-1X22-12I	Energy Storage Solution, eHome Series, 1x22A @ 1 Pf, 48kWh, 220V, 50/60Hz, 12Hrs. Runtime @50 % Load
S300-1X44-02I	Energy Storage Solution, eHome Series, 1x44A @ 1 Pf, 24kWh, 220V, 50/60Hz, 2Hrs. Runtime @50 % Load
S300-1X44-06I	Energy Storage Solution, eHome Series, 1x44A @ 1 Pf, 48kWh, 220V, 50/60Hz, 6Hrs. Runtime @50 % Load
S300-1X44-09I	Energy Storage Solution, eHome Series, 1x44A @ 1 Pf, 72kWh, 220V, 50/60Hz, 9Hrs. Runtime @50 % Load
S300-1X44-12I	Energy Storage Solution, eHome Series, 1x44A @ 1 Pf, 96kWh, 220V, 50/60Hz, 12Hrs. Runtime @50 % Load
S300-3X22-03I	Energy Storage Solution, eHome Series, 3x22A @ 1 Pf, 48kWh, 220V, 50/60Hz, 3Hrs. Runtime @50 % Load
S300-3X22-06I	Energy Storage Solution, eHome Series, 3x22A @ 1 Pf, 72kWh, 220V, 50/60Hz, 6Hrs. Runtime @50 % Load
S300-3X22-08I	Energy Storage Solution, eHome Series, 3x22A @ 1 Pf, 96kWh, 220V, 50/60Hz, 8Hrs. Runtime @50 % Load
S300-3X22-10I	Energy Storage Solution, eHome Series, 3x22A @ 1 Pf, 120kWh, 220V, 50/60Hz, 10Hrs. Runtime @50 % Load



E24®

www.e24solutions.com



ISO 9001:2015



QUALITY STANDARD

