

# “eSolar” Solutions

## Multi-Purpose, Turnkey On-Grid Solar and On-Grid Solar/Diesel PV Solutions

eSolar is a family of pre-engineered PV power generation solutions allowing rapid deployment of on-grid solar arrays and power plants.

All eSolar components are optimally selected and tested to work together and provide the highest performance and reliability.

eSolar is a plug and play solution with all components provided, allowing for quick assembly. eSolar Solutions are designed to optionally connect to diesel generators or step-up transformers when needed.

S100E





**“Finally, an  
all-inclusive  
turnkey solar  
solution  
that is cost  
effective and  
easily installed  
without hassle.”**



# Why eSolar?

## 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. At the same time, solar technology has reached very affordable costs, and has become the cheapest source of energy in many countries

## Worldwide 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, energy bills continue to grow higher.

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

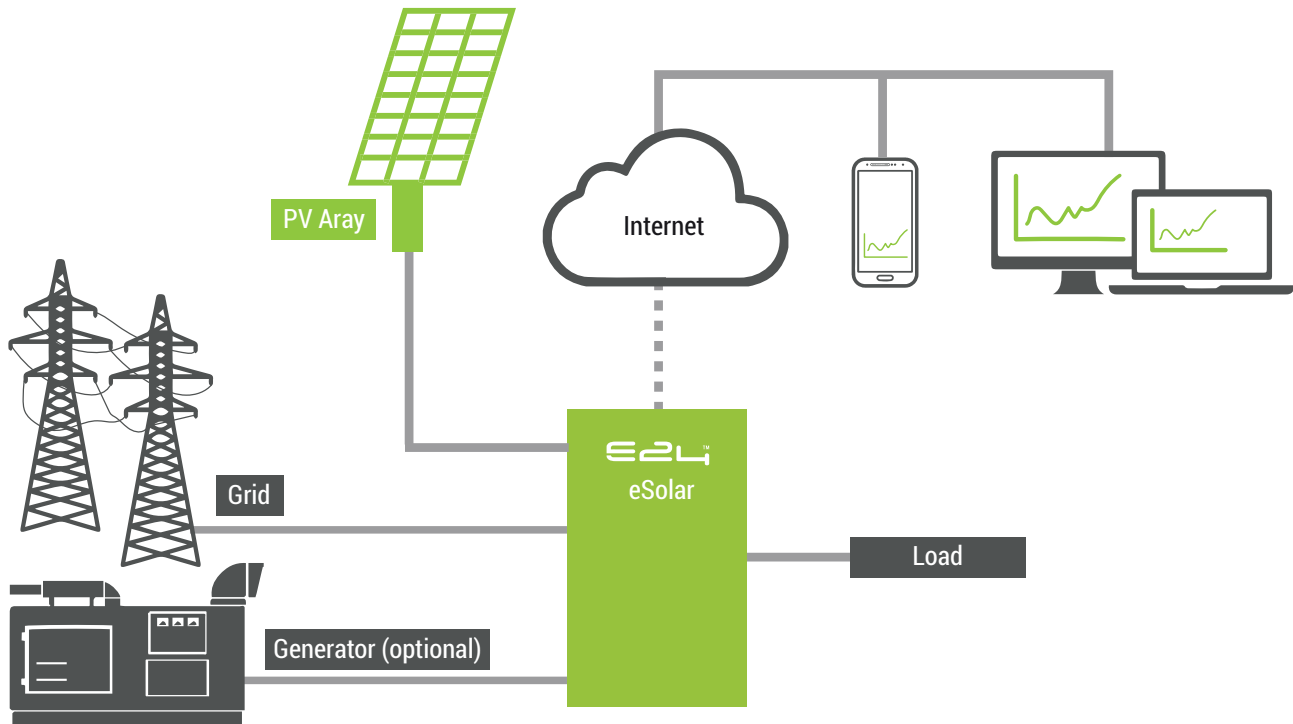
- They are costly to buy, refuel and maintain
- They create air and noise pollution and are harmful in residential environments
- They require space, regular maintenance and repetitive refuelling

## A hassle free, cost-effective solution

eSolar is a simple and cost-effective approach that allows rapid deployment of solar PV generation to reduce your bills while lowering the burden on the planet. eSolar guarantees substantial savings over fuel based alternatives while improving power quality, removing noise and environmental pollution, and limiting human intervention.



# eSolar: A Better Concept



**eSolar is a turnkey solar energy generation solution that can be installed on flat roofs, tiled roofs, pergolas or plain fields. Its demonstrated benefits make it stand out:**

## **One Solution - One Vendor**

Buying from different vendors can be problematic, with no assurance that components are perfectly compatible or tuned to supply the best performance. eSolar components are pre-engineered and pretested by E24 to make sure they are 100% compatible and optimally designed to supply the highest performance

## **Easy Installation**

eSolar includes step by step instructions on how to assemble the PV solution. Any solar technician can install it by simply following the step by step instructions.

## **Preventative Remote Monitoring**

eSolar is cloud connected to our call center, allowing our server to continuously monitor the performance. This means E24 is able to immediately detect anomalies and take the necessary action to make you never lose performance on your investment.

## **Best Warranty**

E24 offers a comprehensive warranty on all solution components of the solution: 25 years on PV Panels, 15 Years on inverters and 5 years on all remaining parts.



# Designed for Your Needs

## **Substantial Cost Savings**

eSolar saves on energy bills, with a lower cost of operation compared to diesel generators. A substantial part of the cost of a solar PV system is in its engineering and logistics. With eSolar, these costs are immediately eliminated as it is pre-engineered and shipped directly to site.

## **Eco-friendly image and values**

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

## **Unattended operation and low maintenance**

eSolar is a standalone system that requires very low maintenance. Its remote monitoring tools allow our technicians to ensure smooth operation and get notified in case of any issues.

## **Calm and Clean**

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

## **Adaptable & Compatible**

eSolar is compatible with auxiliary power sources and includes smart technology to automatically start and control the load on available generators.

## **Modular and Upgradable**

eSolar's modularity means that it is possible to add more PV panels and inverters, dynamically growing with your evolving energy needs.

## **Plug and Play**

E24 technology is supplied in prepackaged kits that include all components. This allows quick, systematic assembly with no external components and no surprises.



# eSolar Pays for Itself

eSolar substantially reduces your energy bills and pays for itself:

- eSolar overcomes the need for expensive diesel generators and generator subscriptions.
- When used privately, eSolar returns excess energy to the grid, saving on utility bills through net metering.
- If coupled with a diesel generator, eSolar's smart technology controls the generator's load, utilizing as much solar energy as possible, while avoiding reverse energy damaging your generator.

E24 has a range of funding partners in selected countries and can assist in financing your solar investment.

Additionally, E24 provides the energy analysis and supporting documents for you to obtain funding at the lowest costs.

## eSolar Applications

eSolar solutions are adapted to a wide range of applications, including flat and tilted rooftops and large fields. With eSolar, it is possible to power your home, business, factory or the utility grid.



# Remote Cloud Monitoring

eSolar includes a state of the art web management tool allowing you to visualize and closely monitor the sound operation of your energy solution, monitoring energy production and load consumption.

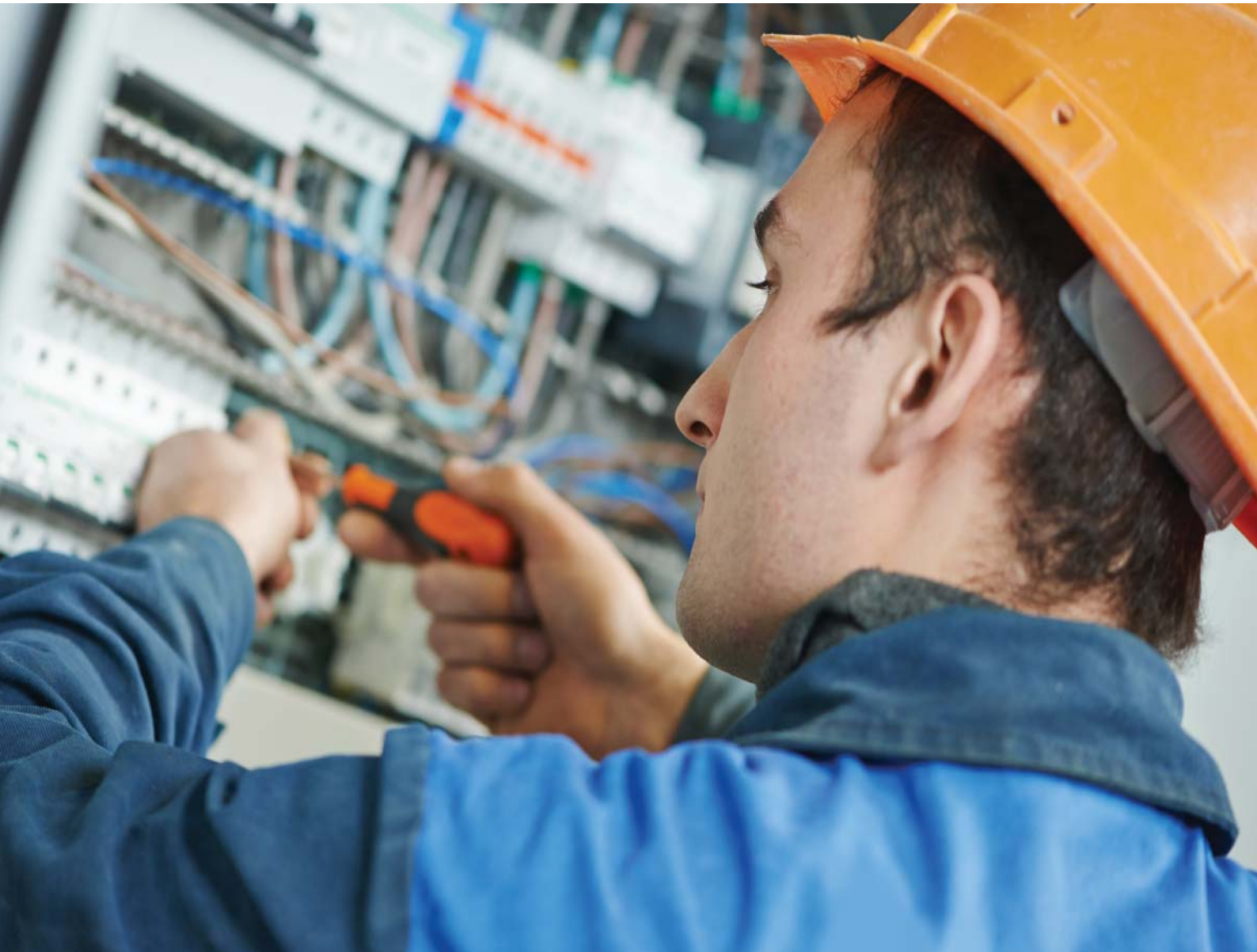
The control system logs data from solar panels, utilities, loads and optional generators. All data is recorded, and history can be downloaded for analysis, keeping you in control of your energy generation and spending.

eSolar 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.





# 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 site.

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 customers' 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 for quick and hassle-free 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.**



## Energy Storage Solutions



eHome



eVilla



eBuilding



eBusiness



eGrid



eVillage



eTelecom



eGrid

## Energy Generation Solutions



eSolar



eHybrid



eParking



eAgri

# Comprehensive 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
S100-1F-002KI	eSolar On-Grid Solar Solution, Single Phase, 2.2 KWp, 220V, 50Hz for Flat roof
S100-1T-002KI	eSolar On-Grid Solar Solution, Single Phase, 2.2 KWp, 220V, 50Hz for Tilted roof
S100-1F-005KI	eSolar On-Grid Solar Solution, Single Phase, 4.5 KWp, 220V, 50Hz for Flat roof
S100-1T-005KI	eSolar On-Grid Solar Solution, Single Phase, 4.5 KWp, 220V, 50Hz for Tilted roof
S100-1F-007KI	eSolar On-Grid Solar Solution, Single Phase, 6.7 KWp, 220V, 50Hz for Flat roof
S100-1T-007KI	eSolar On-Grid Solar Solution, Single Phase, 6.7 KWp, 220V, 50Hz for Tilted roof
S100-3F-002KI	eSolar On-Grid Solar Solution, Three Phase, 2.24 KWp, 220V, 50Hz for Flat roof
S100-3T-002KI	eSolar On-Grid Solar Solution, Three Phase, 2.24 KWp, 220V, 50Hz for Tilted roof
S100-3F-005KI	eSolar On-Grid Solar Solution, Three Phase, 4.5 KWp, 220V, 50Hz for Flat roof
S100-3T-005KI	eSolar On-Grid Solar Solution, Three Phase, 4.5 KWp, 220V, 50Hz for Tilted roof
S100-3F-007KI	eSolar On-Grid Solar Solution, Three Phase, 6.7 KWp, 220V, 50Hz for Flat roof
S100-3T-007KI	eSolar On-Grid Solar Solution, Three Phase, 6.7 KWp, 220V, 50Hz for Tilted roof
S100-3F-009KI	eSolar On-Grid Solar Solution, Three Phase, 9 KWp, 220V, 50Hz for Flat roof
S100-3T-009KI	eSolar On-Grid Solar Solution, Three Phase, 9 KWp, 220V, 50Hz for Tilted roof
S100-3F-011KI	eSolar On-Grid Solar Solution, Three Phase, 11.2 KWp, 220V, 50Hz for Flat roof
S100-3T-011KI	eSolar On-Grid Solar Solution, Three Phase, 11.2 KWp, 220V, 50Hz for Tilted roof
S100-3F-013KI	eSolar On-Grid Solar Solution, Three Phase, 13.4 KWp, 220V, 50Hz for Flat roof
S100-3T-013KI	eSolar On-Grid Solar Solution, Three Phase, 13.4 KWp, 220V, 50Hz for Tilted roof
S100-3F-016KI	eSolar On-Grid Solar Solution, Three Phase, 15.7 KWp, 220V, 50Hz for Flat roof
S100-3T-016KI	eSolar On-Grid Solar Solution, Three Phase, 15.7 KWp, 220V, 50Hz for Tilted roof
S100-3F-020KI	eSolar On-Grid Solar Solution, Three Phase, 20.2 KWp, 220V, 50Hz for Flat roof
S100-3T-020KI	eSolar On-Grid Solar Solution, Three Phase, 20.2 KWp, 220V, 50Hz for Tile roof
S100-3F-023KI	eSolar On-Grid Solar Solution, Three Phase, 23 KWp, 220V, 50Hz for Flat roof
S100-3F-029KI	eSolar On-Grid Solar Solution, Three Phase, 29 KWp, 220V, 50Hz for Flat roof
S100-3F-035KI	eSolar On-Grid Solar Solution, Three Phase, 35 KWp, 220V, 50Hz for Flat roof
S100-3F-046KI	eSolar On-Grid Solar Solution, Three Phase, 46 KWp, 220V, 50Hz for Flat roof
S100-3F-058KI	eSolar On-Grid Solar Solution, Three Phase, 58 KWp, 220V, 50Hz for Flat roof
S100-3F-069KI	eSolar On-Grid Solar Solution, Three Phase, 69 KWp, 220V, 50Hz for Flat roof
S100-3F-081KI	eSolar On-Grid Solar Solution, Three Phase, 81 KWp, 220V, 50Hz for Flat roof
S100-3F-098KI	eSolar On-Grid Solar Solution, Three Phase, 98 KWp, 220V, 50Hz for Flat roof
S100-3F-121KI	eSolar On-Grid Solar Solution, Three Phase, 121 KWp, 220V, 50Hz for Flat roof
S100-3F-150KI	eSolar On-Grid Solar Solution, Three Phase, 150 KWp, 220V, 50Hz for Flat roof
S100-3F-184KI	eSolar On-Grid Solar Solution, Three Phase, 184 KWp, 220V, 50Hz for Flat roof
S100-3F-202KI	eSolar On-Grid Solar Solution, Three Phase, 202 KWp, 220V, 50Hz for Flat roof
S100-3F-242KI	eSolar On-Grid Solar Solution, Three Phase, 242 KWp, 220V, 50Hz for Flat roof
S100-3F-323KI	eSolar On-Grid Solar Solution, Three Phase, 323 KWp, 220V, 50Hz for Flat roof
S100-3F-484KI	eSolar On-Grid Solar Solution, Three Phase, 484 KWp, 220V, 50Hz for Flat roof
S100-3F-645KI	eSolar On-Grid Solar Solution, Three Phase, 645 KWp, 220V, 50Hz for Flat roof
S100-3F-001MI	eSolar On-Grid Solar Solution, Three Phase, 1.0 MWp, 220V, 50Hz for Flat roof
S100-3F-1M2OI	eSolar On-Grid Solar Solution, Three Phase, 1.2 MWp, 220V, 50Hz for Flat roof
S100-3F-1M5OI	eSolar On-Grid Solar Solution, Three Phase, 1.5 MWp, 220V, 50Hz for Flat roof
S100-3F-2M0OI	eSolar On-Grid Solar Solution, Three Phase, 2.0 MWp, 220V, 50Hz for Flat roof
S100-3F-FSAV	Diesel Generaor Fuel Saver Controller for up to 3 inverters



## REGIONAL SALES OFFICES

### North America:

1250, Rene Levesque West, #2200  
Montreal, Quebec,  
Canada H3B 4W8  
Phone: +1-514-9893700  
Sales\_R1@e24solutions.com

### Europe:

20-22 Wenlock Road  
London N1 7GU  
United Kingdom  
Phone: +44-2038242497  
Sales\_R4@e24solutions.com

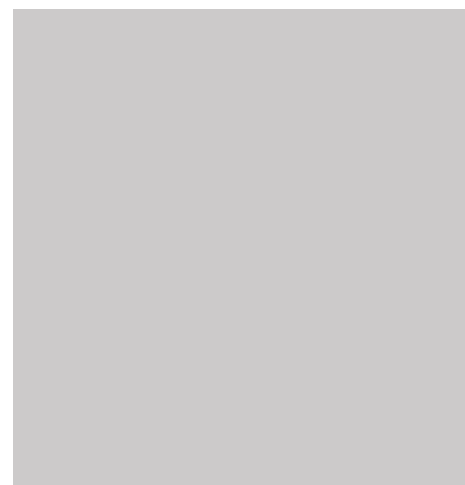
### Eurasia:

5th and 6th Floors,  
14 Tsar Osvoboditel Blvd.,  
1000 Sofia, Bulgaria  
Phone: +359-2-811-1445  
Sales\_R5@e24solutions.com

### Middle East & Africa:

May Tabet Building,  
Sin El Fil  
Beirut, Lebanon  
Phone: +961-1-492705  
Sales\_R6@e24solutions.com

## AUTHORIZED RESELLER



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