

CERBERUS 3.1

**THE SUSTAINABLE FUTURE STARTS
TODAY! Solar Energy from your Balcony**



2560 Wh
Capacity



2000W Max
MPPT Input



800W Max
AC Output



IP65
Protection



LiFePO4
Battery

**New PLUG & PLAY Photovoltaic Balcony
KIT with ACCUMULATION 2.56kW/h**

INTEGRATED WIRELESS CT

INTEGRATED WIFI

INTEGRATED BLUETOOTH

MANAGEMENT APP

NEW PLUG & PLAY Photovoltaic Balcony KIT with ACCUMULATION 2.56kW/h

6000 CHARGING CYCLES

96.5% EFFICIENCY

2560 Wh Capacity

2000W Max MPPT Input

800W Max AC Output

IP65 Protection

LiFePO4 Battery

MAIN FEATURES

Storage Battery 2.56 kW/h

Sufficient capacity to ensure constant and reliable power.

Integrated 800 Watt Inverter

High-quality converter for maximum efficiency in energy management.

2 Full Black Panels of 410 Watts Each Aesthetically pleasing and high-performance solar panels with a total of 860 Watts.

Balcony Anchorage Brackets

Robust and secure mounting system designed for easy installation.



OPERATION OF THE KIT

CERBERUS3.1 is an advanced plug & play solution for self-generating solar energy directly in your home. Designed to be easily installed on any balcony, this integrated system combines efficiency, design and advanced technology to deliver a state-of-the-art energy experience.

Solar Energy

The two 410 Watt Full Black photovoltaic panels capture sunlight and convert it into electrical energy (direct current - DC).

Energy Conversion

integrated 800 Watt inverter converts electrical energy from direct current (DC) to alternating current (AC), making it compatible for domestic use.

Energy Storage

Excess energy that is not immediately used is stored in the 2.56 kWh storage battery. This allows solar energy to be used even when the sun is not available, such as during the night or on cloudy days.

Monitoring and Optimisation

The wireless CT constantly monitors the flow of energy, providing detailed data on production, consumption and storage. This data can be visualised via the dedicated app, which utilises the system's WiFi and Bluetooth connectivity, allowing users to optimise the use of the solar energy produced.

Energy Utilisation

The converted and stored energy can be used to power various household electrical devices, reducing dependency on the power grid and lowering energy costs.

EASY INSTALLATION

With the CERBERUS 3.1, we have made installing a photovoltaic system simple, fast and affordable for everyone. There is no need to be an expert or to invest time and money in expensive professional installations. Choose our kit and start benefiting from solar energy now, saving money and helping to protect the environment.

All Inclusive, No Worries

Our kit comes with all the necessary components for installation: solar panels, inverters, cables, supports and

a detailed instruction manual.

You won't have to worry about buying additional parts or searching for compatible accessories. We have thought of everything for you!

Quick Installation

Thanks to the intuitive design of the kit, the entire installation can be completed in a few hours. You will not have to spend days assembling or configuring the system. In no time, you will be ready to start producing your own clean energy.

ELEGANT DESIGN

CERBERUS 3.1 not only represents a step forward in the use of solar energy, it does so in an unmistakable style. We have combined efficiency and aesthetics to create a product that blends perfectly with any environment, adding a touch of elegance to your outdoor space.

Whether you live in a historic building or a modern residential complex, CERBERUS 3.1 integrates effortlessly. The full-black panels and compact structure are designed to blend elegantly with existing design, keeping your balcony's appearance clean and uncluttered.

Compact and Refined Structure

One of the distinguishing features of our kit is its compact design.

No bigger than a computer case, the inverter and other electronic components are enclosed in a minimalist design that takes up very little space.

This allows it to be easily mounted on the balcony without compromising the aesthetics or functionality of your environment.

Full-Black Photovoltaic Panels

Our full-black photovoltaic panels are the heart of the system, and their elegant design is designed to harmonise with any type of architecture. The uniform black surface is not only highly efficient at absorbing sunlight, but also gives your balcony a modern, sophisticated look. These panels represent the perfect balance between advanced technology and refined design.

ENERGY EFFICIENCY

CERBERUS 3.1 stands for high energy efficiency, combining advanced technology and high-quality components to maximise solar energy production. This system is designed to offer optimal performance, significantly your energy costs and environmental impact. Each component has been chosen and designed to minimise energy losses.

From high quality cables to low resistance connectors,

every detail is optimised to ensure that the maximum amount of energy generated by the solar panels reaches your home network.

With high-efficiency full-black solar panels, an advanced inverter and MPPT technology, this kit ensures optimal and sustainable energy production. **Choose our kit for a more efficient and environmentally friendly energy future.**

ENVIRONMENTAL SUSTAINABILITY

CERBERUS 3.1 is not only a smart investment for your energy savings, but also a significant contribution to environmental sustainability. By choosing our kit, you not only reduce your energy costs, but also help protect the planet for future generations.

Reducing CO2 Emissions

Every kilowatt-hour of energy produced by our full-black solar panels is a kilowatt-hour that does not have to be generated by fossil fuel power plants. This translates into a direct reduction of carbon dioxide (CO₂) emissions, one of the main greenhouse gases responsible for climate change. With our kit, you can do your part to reduce air pollution and mitigate the greenhouse effect.

Clean and Renewable Energy

Solar energy is one of the cleanest and most renewable energy sources available. Our solar panels capture sunlight and transform it into electricity without producing harmful emissions or hazardous waste. This process does not deplete natural resources and does not harm the environment, contributing to a sustainable energy future.

Use of Eco-Friendly Materials

CERBERUS 3.1 is designed with an emphasis on sustainable materials. The solar panels are made of tempered glass and recyclable materials, while the system structure uses durable and environmentally friendly components. Every element of the kit is designed to minimise ecological impact throughout the product's life cycle.

Reducing Energy Consumption

The advanced inverter and MPPT (Maximum Power Point Tracking) technology ensure that every single ray of sunlight is used to its full potential.

This means you produce more energy with fewer panels, reducing resource consumption and improving overall energy efficiency. Less energy waste translates into greater sustainability.

Promotion Energy Self-consumption

With our kit, you can produce and consume energy directly at home, reducing your dependence on the electricity grid and non-renewable energy sources. Self-consumption of energy not only lowers your energy bills, but also reduces the demand for energy from polluting sources, promoting a more sustainable and decentralised energy model.





		Competitor 1	Competitor 2	Competitor 3
CERBERUS 3.1	✓	✓	✗	✓
Integrated microinverter	✓	✗	✗	✓
Non-wall installation	✓	✓	✗	✓
-20°C Performance	✓	✓	✓	✗
Anti-immersion	✓	✓	✓	✗
Capacity/Units	2560Wh/5120Wh	2400Wh	1920Wh	1024Wh
MPPT number	4 (2000W)	2 (1200W)	2 (1800W)	2 (1200W)
Cycles of charge	6000+	4000+	3000+	6000+
DC port	MC4	MC4	MC4	Anderson

		CERBERUS 3.1
BATTERY INFORMATION	Capacity	2560Wh
	Cellular Chemistry	LifePO ₄
	Life cycles	6000+ Cycles at 80% Capacity
	DoD	90%
	Current	50A
	Battery management system	OVP,UVP,OCV,SCP,OTP,UTP, etc.
MC4*2 FV INPUT	Maximum input power	500W*4
	MPPT tracker	4
	Voltage range	25V~55V
	Maximum input voltage	60V
	Maximum input current	14.5A*4
	MPPT Effi	99.80%
AC OUTPUT (ON GRID)	Power rating	1kW
	Voltage range	220V~230V
	Output frequency	50Hz/60Hz
	Nominal AC current	4.54A/4.34A
	Maximum output current	5.34A
	Output power factor	>0.99
	THDi	<3%
EFFICIENCY	Max. Battery per charge Efficiency	>96.5%
	Size	417*265*228mm
GENERAL	Weight	15±0.5kg
	Material	SPCC
	Operating temp.	-20~+60°C (Storage -30~+85°C)
	Degree of protection	IP65
	Cooling strategy	Natural
	Altitude	≤2000m
	Humidity	0~95%
	wireless	BT 5.2+WIFI 2.4G
	Network connection standards	VDE4105
CONFORMITY	Regulations	IEC/EN 62109-1/2
	EMC	EN 61000-6-1/-2/-3/-4