

YOUR PARKING,  
AN INEXHAUSTIBLE  
SOURCE OF ENERGY.



## PHOTOVOLTAIC CARPORTS

Ecox BV, B-Waregem / +32-56-89.50.10 / info@ecox.be

**genelios**  
Energy & Carpark

# Our DNA

The main driver of Genelios, French designer and manufacturer of photovoltaic carports, is to combine proven expertise in the design and production of complex structures.

Societal convictions of its founders are:

- Ecological conviction: fighting climate change requires the development of alternative energy solutions, and photovoltaic carports are one such solution, thanks to their **simplicity** and **efficiency**.
- Economic conviction: the photovoltaic carport models developed by Genelios, for both professionals and individuals, are affordable and offered a quick **return on investment**.
- Finally, the conviction that, as business leaders involved in renewable energy, we have a responsibility to select manufacturing, logistics, and installation solutions for our photovoltaic carports with **minimal environmental impact**.

## OUR ADDED VALUE



- Team of **8 experts in photovoltaic carports** with over **40 years** of experience in the solar market.
- Our goal: **Accelerate the solarization of parking areas** with innovative and high-quality products.
- Our offer: **Design carports, easy and quick to install**, for ecological and decarbonization investments.

### Our team



#### **Integrated Design and Technical Office:**

Support for building permit applications, 3D renderings, etc.



#### **Support for training:**

Technical and commercial training at the company headquarters.



#### **Available technical support:**

By phone and email, with experts assisting at every stage, from components (modules, inverters, chargers) to commissioning.



# 10 ADVANTAGES

High-Efficiency and Profitable Photovoltaic Carports



**Dual function** of the photovoltaic parking shelter

An effective solution to **control your energy bill**



**Produce and consume** your energy at a constant cost

**An affordable price** and reduced installation costs



**A customizable structure** to match the parking space technical requirements

**A simple and fast installation** thanks to an exclusive patented technology



A **Made-in-France** design by Genelios

An **ultra-resistant** and proven structure



Compatible photovoltaic modules and MLPE technology by **global leaders**

An **exclusive design** created to integrate into any **configuration**



# OUR PHOTOVOLTAIC CARPORTS OFFERS



## FOR PROFESSIONALS



## REGULATIONS

The solar carport market is rapidly expanding, driven by the adoption of laws in EU to accelerate renewable energy production which made the installation of photovoltaic carports mandatory on outdoor parking lots. This measure applies to various sectors, including businesses, train stations, airports, supermarkets, and shopping centers.

## ADVANTAGES



Reduction  
of carbon  
footprint



Enhancing  
the company's  
social responsibility



Achieving  
significant  
energy savings



## FOR INDIVIDUALS

## ADVANTAGES



Combine vehicle  
protection and  
electricity production



Ensure  
sustainable savings  
on your bills



Customizable  
options to meet  
your needs



# OUR WARRANTIES AND QUALIFICATIONS



## Our warranties

- Support structure

10-years warranty

- Modules product/production warranty

30-years warranty



## Our qualifications

- Painting/coating

Lifetime: 25 years



- Navy quality



## Focus





# GENELIOS CARPORTS TECHNICAL DATA

Genelios Standard Size					
See ballasting table by region					
DUO (6Kwc)		RMP (4.5Kwc)			
MAXIMUM SIZES					
	2 CARS PARKING LOT	4 CARS PARKING LOT	6 CARS PARKING LOT	8 CARS PARKING LOT	1 RMP CAR PARKING LOT
	2 Ballastings	3 Ballastings	4 Ballastings	5 Ballastings	2 Ballastings
	12 photovoltaic modules	24 photovoltaic modules	36 photovoltaic modules	48 photovoltaic modules	9 photovoltaic modules
SIDE A (mm)	5230	10460	15690	20920	3734
SIDE B (mm)	6050	6050	6050	6050	6050

Infinitely duplicable carport

## OUR CARPORTS OPTIONS

### LED LIGHTING

Add LED lighting to your Genelios carport and enjoy the comfort and design of your parking space at any time of the day. Appreciate the design of your carport while benefiting from integrated and efficient lighting for your vehicles.

### STORAGE SOLUTION

To increase the performance of your Genelios carport, we additionally offer an APsystems storage battery to your installation. It will allow you to harvest more production and optimize your self-consumption rate on a daily basis.

### « IZNOWOOD » DESIGN

The «Iznowood» design of our Genelios carport allows you to tailor your carport according to your environment while maintaining a natural and design touch for your eco-friendly parking solution.

- «Iznowood Dark Oak» wood-like design
- «Iznowood Light Oak» wood-like design
- RAL 7016: Base structure





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# EXCELLENCE IN PARTNERSHIPS...

## MICROINVERTERS, BATTERIES STORAGE, AND EV CHARGING STATIONS



SINGLE-PHASE  
MICROINVERTER **DS3**



THREE-PHASE  
MICROINVERTER **QT2**

STRING INVERTER  
OPTIONAL (ON DEMAND)



SAFE



POWERFUL



SMART



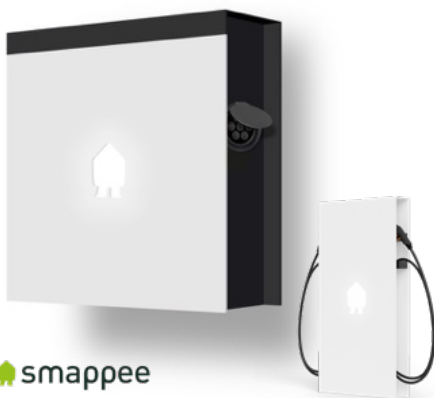
COST-EFFECTIVE

Our Genielios parking carports are energized with **APsystems microinverters**, a global leader in the photovoltaic industry, offering an efficient combination of **quality and innovation**.

To enhance your installation, we also offer **APbattery storage** solutions with a capacity of 6.5 kWh, as well as **Smappee EV charging stations from 7 to 22 kW**, enabling you to optimize your production and increase your self-consumption rate.



**Solax Hybrid Inverter  
Triple Power Storage  
Mono or TriPhase**



 **smappee**

### EV CHARGER

- ✓ Wall-mounted or ground-mounted stylish charging stations
- ✓ Range for businesses and individuals (7 to 22 kW)
- ✓ Solar charge and dynamic load management
- ✓ User access management (credit card or RFID)
- ✓ Overload/consumption peak protection

# EXCELLENCE IN PARTNERSHIPS...

## PHOTOVOLTAIC MODULES

Choose from our range of 500Wc compatible photovoltaic modules...



Compatible with

**eliomax**<sup>®</sup>

**Dualsun**

**DMEGC**  
S O L A R

**MaviWatt**<sup>®</sup>

**solutium**  
PARTNER OF SOLARIS SINCE 2011

### Double-Glass and Bifacial Module

- Maximize your electricity production by up to +30% with the bifacial module!

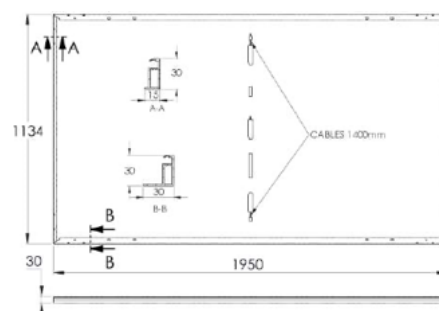
### High Efficiency

- Our photovoltaic modules deliver **high performance** with exceptional **energy efficiency**, maximizing your solar energy production.

### Long Lifetime

- Our modules have a **long lifetime** without compromising **performance**, ensuring **continuous energy production**.

### Module Layout



- Module dimensions : 1960 x 1134 x 30

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# TECHNICAL DATASHEET

## PHOTOVOLTAIC CARPORTS G-BOX-RMP DUALSUN Modules FLASH 500 Half-Cut Glass-Glass TOPCon



Color reference  
Ral 7016  
Feet with optional wood finish (light oak)

### Technical requirements

9 solar modules producing 4.5 kWc of green energy  
Carport designed for 2 vehicles parking space  
Infinitely duplicable, self-supporting aluminum structure with an innovative mounting system, allowing for quick and easy installation in a very short time period.

### Technical Data General

Model	G-BOX-005
Total Width	3734
Total Depth	6050
Total Height	3264
Clearance Height	2482
Structure Materials	Aluminium
Total Weight	800kg
Number of Parking Spaces	1
Roof Slope	5°
Roof Surface Area	21,12 M <sup>2</sup>

### Solar Modules

Model	FLASH 500 Half-Cut Glass-Glass
Width	1134
Length	1950
Thickness	30
Nominal Power (P <sub>nom</sub> )	500 W
Tolerance (module)	0/3%
Efficiency (module)	21,9%
Voltage at Maximum Power (V <sub>mpp</sub> )	36,92 V
Current at Maximum Power (I <sub>mpp</sub> )	13,56 A
Open-Circuit Voltage (V <sub>oc</sub> ) (+/-3%)	44,45 V
Short-Circuit Current (I <sub>sc</sub> ) (+/-3%)	14,04 A



Design Made in France

# TECHNICAL DATASHEET

## PHOTOVOLTAIC CARPORTS G-BOX

DUALSUN Modules FLASH 500 Half-Cut Glass-Glass TOPCon



Color reference  
Ral 7016  
Feet with optional wood finish (light oak)

### Technical requirements

12 solar modules producing 4.5 kWc of green energy

Carport designed for 2 vehicles parking space

Infinitely duplicable, self-supporting aluminum structure with an innovative mounting system, allowing for quick and easy installation in a very short time period.

### Technical Data

#### General

Model	G-BOX-004
Total Width	5230
Total Depth	6050
Total Height	3264
Clearance Height	2482
Structure Materials	Aluminium
Total Weight	800kg
Number of Parking Spaces	2
Roof Slope	5°
Roof Surface Area	30,17 M <sup>2</sup>

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# GENELIOS AT YOUR SIDE

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1

## 3D Modeling

GENELIOS creates 3D models for you to help visualize your project.



2

## Foundation Selection

GENELIOS adapts to your needs. Choose from several foundation types to find the one that suits you best.

### 1st Solution

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The screw pile system with brackets to fix the carport is simple and turnkey, requiring no mini-excavator or concrete mixer, providing reassurance to your clients. TECHNO PIEUX integrates our load descent into their fixings, ensuring the foundations of GENELIOS. However, a soil study and network plan are required for business parking areas.







# OUR REFERENCE CUSTOMERS

## RESIDENTIAL



**ISOWATT**  
Groupe Auraliance

1 carport  
6 kWc

## TERTIARY



**CHANEL**

23 carports 5,5kW  
Capacity : 126,5kWc

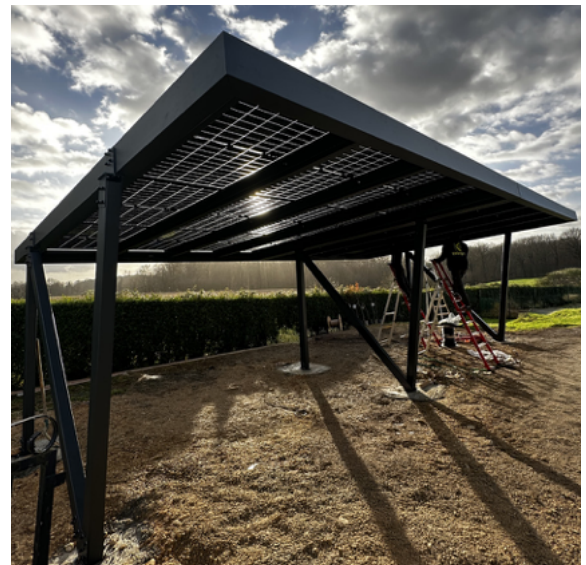
## TERTIARY



**Mg+**  
ELECTRICITE

6 carports 6kW  
Capacity : 36kWc

## TERTIARY



**K**

2 carports 6kW  
Capacity : 12kWc