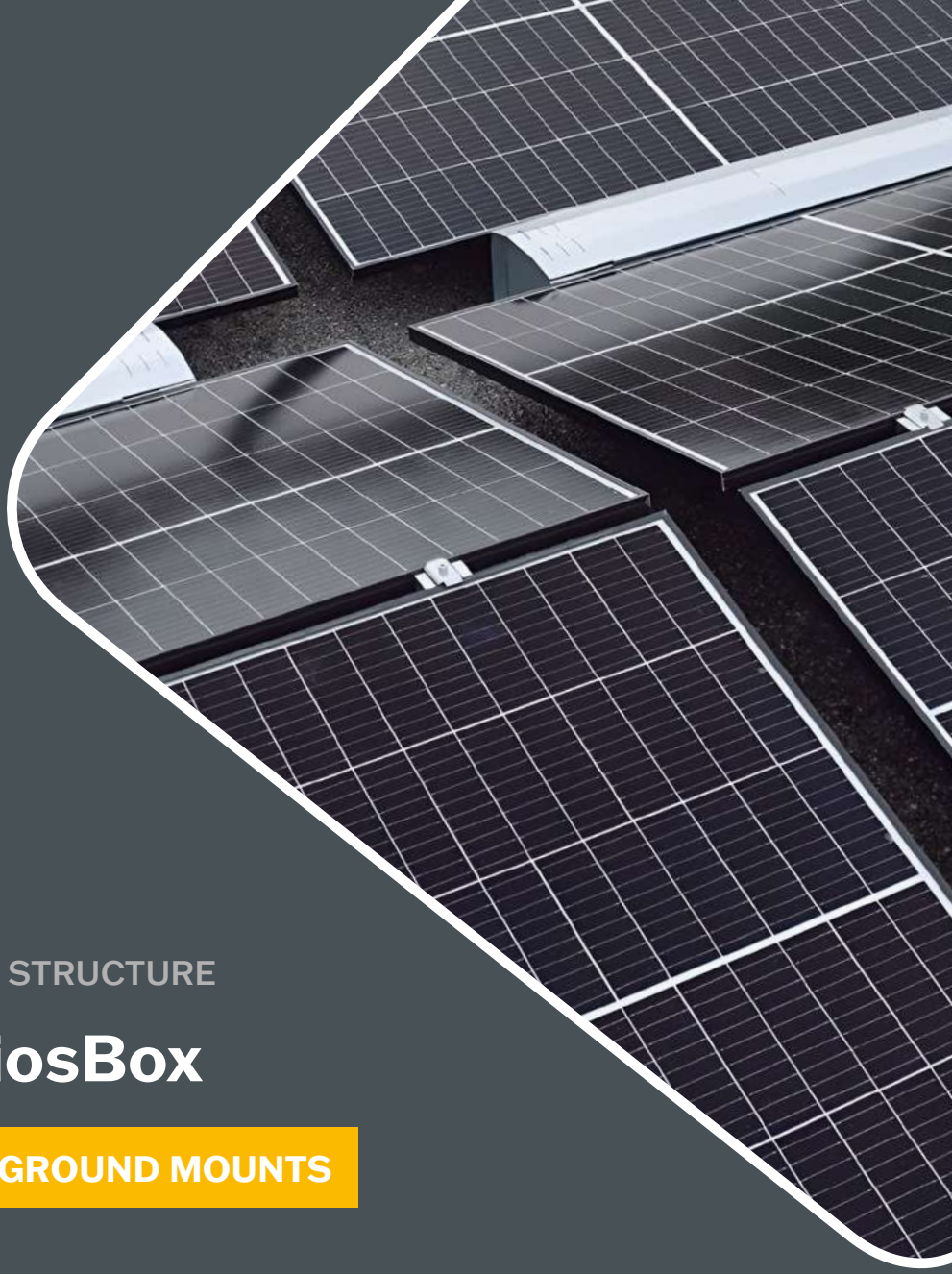
HELIOSLITE



SELF-BALLASTED STRUCTURE

HeliosBox

FLAT ROOFS & GROUND MOUNTS

Distinctive services

As part of an eco-design approach,
our innovative and cost-effective solutions
reduce the quantities of raw materials needed,
and project costs.

Proven know-how

For over 10 years, our unique know-how
combines technical expertise, collaborative
development and strategic partnerships.

Tested and certified products

A range of quality products, tested and certified,
ensuring optimum durability and reliability.

HELIOSLITE

Equipment provider, versatile partner.

Since 2013, HeliosLite has been designing and developing innovative photovoltaic tecnologies, ranging from ground-based and floating structures to solar trackers and performance monitoring with autonomous sensors and dataloggers.

Tested and certified, our product are designed to improve your profitability while guaranteeing performance and reliability.

Thanks to our expertise and our commitments, we can support you at every stage of your projects, whether national or international, using specific sales channels and tools.

Experimentation of an East-West structure with « Société des Trois Vallées » at 1850 meters altitude.
The ARaymond Group markets the floating photovoltaic solution designed by HeliosLite under an exclusive worldwide license.

HeliosBox

Self-ballasted solution

With an innovative approach, the HeliosBox self-ballasted structure offers profitability, competitiveness and robustness.

Efficient and competitive

Developed to improve your profitability, HeliosBox combines simplicity, adaptability and efficiency. Whether for flat-roof or ground-mounted solar systems, the structure and its simple and intuitive installation process remain the same. So you can maximise your team's productivity.

Thanks to its unique design and features, you can save time at every stage of your project, reduce your stock levels due to the versatility of HeliosBox, and minimise your team's training needs.

- **Competitive and quick to assemble**
- **Clip-on mounting, no tools required**
- **Flat-roof and ground mounting**
- **Can be dismantled and moved**

Robust and durable

Manufactured from **top-quality materials** and rigorously tested, HeliosBox guarantees optimum performance in all conditions.

- **French ETN certification**
- **Laboratory and wind tunnel tested**
- **Wide range of compatible framed modules**
- **Taylored layout with ballast**
- **Dedicated online configurator**

Technical specifications

PV panel compatibility	Wide range of compatible framed modules
Inclination angle	East-west facing at 15°. Maximum slope of 5 %
Mounting clip	Long edge fixing with PowAR Snap S+
Structure material	Magnelis steel, 100 % recycable
Dimensions and volume	1150 x 230 x 220 mm / 55 L per box
Conditioning	Optimised and compact
Maximum wind speed	Class 4 certification (Vref= 28m/s)
Maximum snow load	≤ 1,200 Pa, i.e. ≈ 1,2 metres of fresh snow (tested at 2,400 Pa)
UV exposure lifetime	Unlimited: material with no risk of degradation
Flammability	Non-flammable product
Codes and standards	Wind tunnel tests, load tests, ETN certification B Roof certification on request
Warranties	30-year guarantee on mechanical resistance and corrosion depending on the environment

Optimised design and conditioning

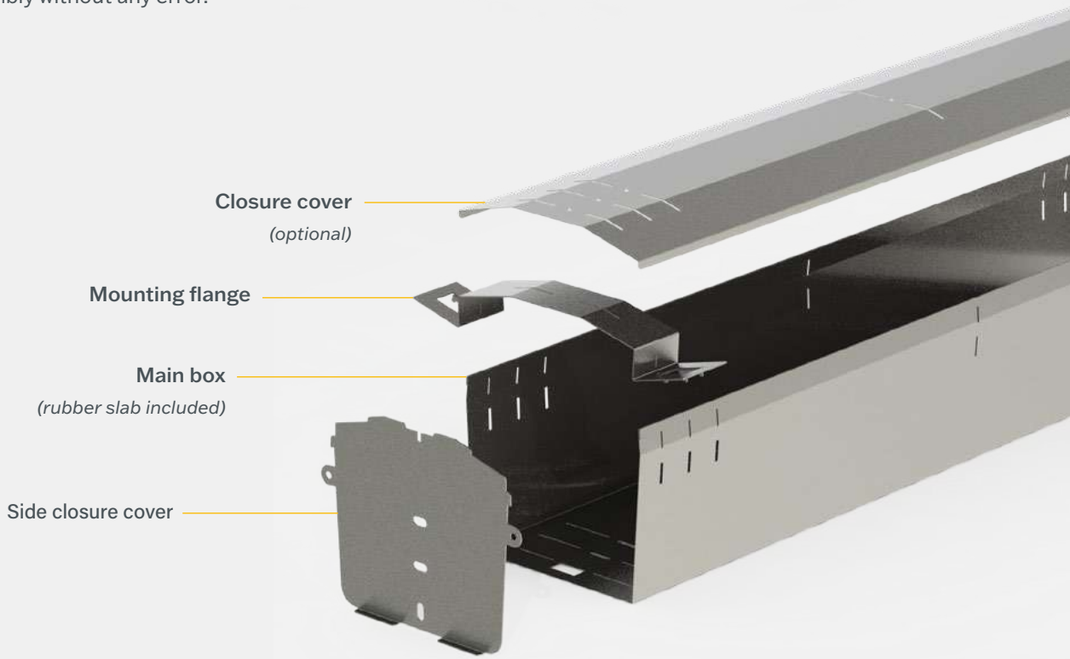
No rails, no parts longer than 120 cm, no cutting required. With more compact packaging thanks to its design, you can deploy your installations more quickly and reduce your logistics costs.

- Lower logistics costs
- Fast clip-on assembly
- Grounding integrated
- Microinverter support and cable tray available

Efficient assembly

Consists of 4 clip-on references per box, this structure ensures quick assembly and disassembly without any error.

Assembly video



Versatile and flexible

For small or large-scale installations, the HeliosBox structure is suitable for all types of project. This unique and adaptable structure is suitable for both flat roofs and ground-mounted projects, whether residential, industrial or agricultural.

High-performance and stable

Thanks to its innovative design, this self-ballasting system has no support rails and adapts better to obstacles and slope breaks. You increase the installed power and avoid damaging the waterproofing membrane due to thermal expansion of the structures. Moreover, the wider bearing surface of HeliosBox reduces the risk of punctures.

- ✓ **A single solution for all of your projects**
- ✓ **Optimised layout**
- ✓ **Reduced permanent local bearing load**
- ✓ **No risk of thermal expansion**

Superior resistance

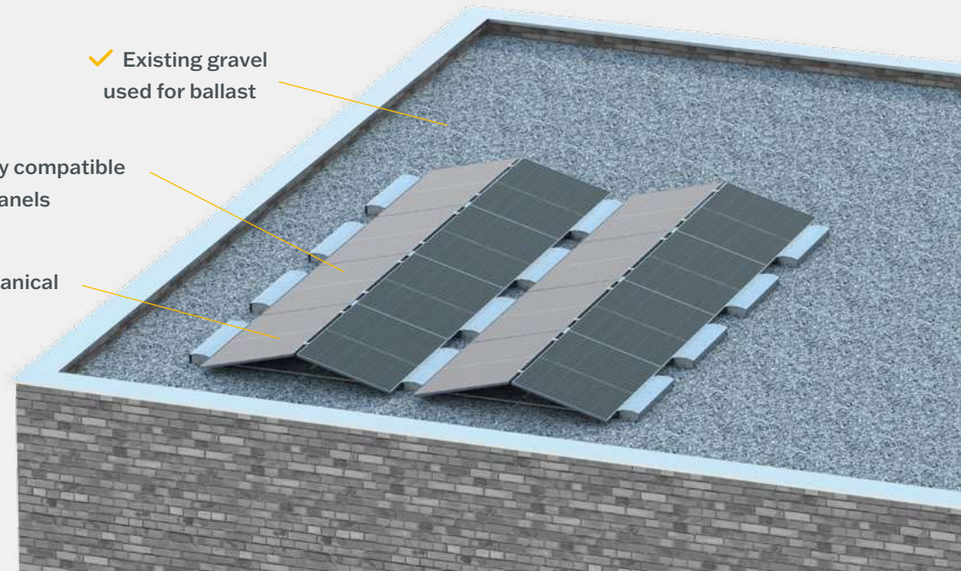
HeliosBox stands out for its superior mechanical strength resulting from an innovative triangulation design and the fastening of the modules on the long edges. Tested by independent third parties and **certified under a french ETN**, the structure exceeds industry legal requirements.

2-points grounding

No more need to ground all the module!
The unique design of the structure multiplies the number of grounding points per module.
All you need is two opposing grounding points per HeliosBox block, for redundant grounding of all modules.

Improve your profitability

No need to remove gravel from the roof! The box is filled with existing gravel at its location. This radically reduces the time and effort involved in installation, without compromise.



HeliosSense

Autonomous and communicating sensor

As a distinctive and versatile solution, HeliosSense enables monitoring and data collection with precision and flexibility.

Monitor and analyse

Powered by a photovoltaic cell and a lithium-ion battery, HeliosSense collects on-site data and communicates them via the 4G network. Its robust design and advanced features make it an essential tool for monitoring performances and risks, and collecting valuable data in any environment.

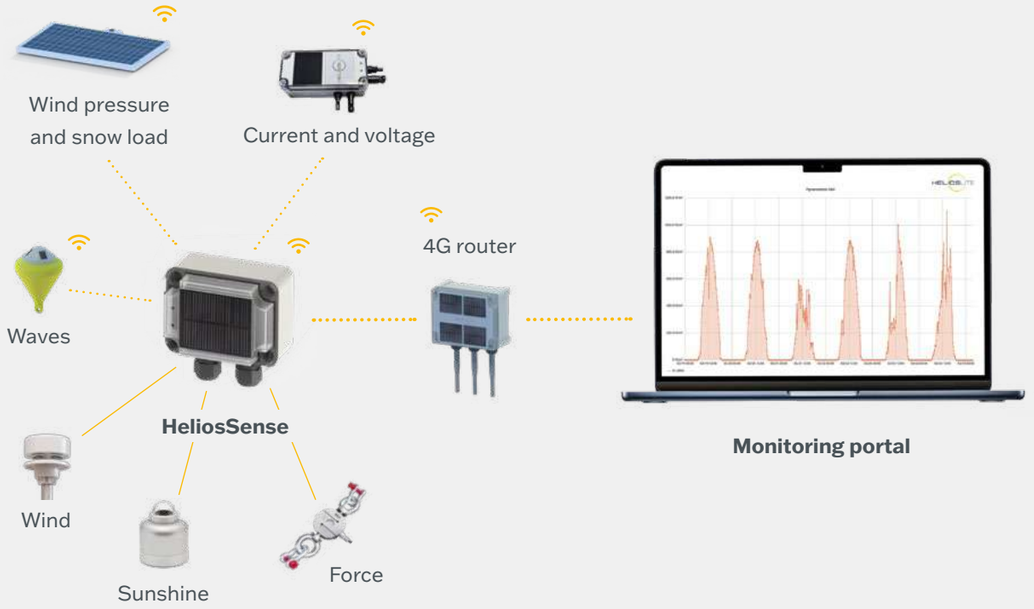
Multipurpose applications

Thanks to its compatibility with numerous sensors, this autonomous data logging solution can be used to measure a large range of customisable parameters. With remote control and the ability to pilot various components, HeliosSense meets the specific needs of each project.

- Self-powered wireless system
- High-performance monitoring
- Intelligent alerts
- Scientific data collection
- Configuration interface
- Suitable for all type of project
- Integration of your own sensor

Examples of applications

- Monitoring of anchor lines for floating PV power plants
- Weather station for solar power plants or isolated sites
- Measurement of snow loads and wind pressure on modules



HeliosTrack

1.5 axis solar tracker

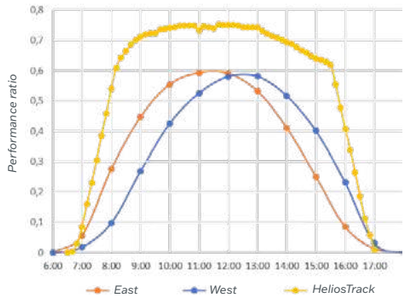
With performance and reliability, HeliosTrack offer the best return on investment for self-consumption projects.

Competitive, simple, robust

Thanks to its patented design, the HeliosTrack 1.5-axis solar tracker offers the best return on investment of any tracker. With over 350 units installed in eight countries, HeliosTrack ensures reliability and efficiency in all environments.

Modular and adaptable

Each tracker is equipped with 12 modules, providing modular coverage for all types of project. In addition, its structure allows this solution to be adapted to slopes or uneven ground, making it also easily moved.



- Extended power curve
- Best return on investment
- Bifacial panels compatible
- Modular and adaptable structure
- Various applications

Fast and safe installation

Save time and safety with a system that doesn't require lifting equipment or working at height. Several anchoring solutions are available to suit all ground conditions. The controller requires no external power supply or ethernet cable, making installation quick and easy.

- Wind tunnel tested and certified
- Efficient assembly
- Installation without lifting equipment
- Various anchoring solutions
- No external power supply required
- Remote performance monitoring

HeliosLite

Life cycle support

We support our customers at every stage of their projects, from design to commissioning and operation.

- Worldwide distribution
- Access to a configurator
- Customized technical support

Configurator

Our configurator makes it easy to layout and calculate the required ballast for each project.

Distribution

By building strong partnership with strategic partners, HeliosLite ensures efficient distribution of its products for your projects in France or abroad. With our EPC partners, we can also provide turnkey installations.

Engineering services

For you larger-scale projects or those with particular complexities, our in-house engineering team is ready to provide additional technical support. In this way, we help you succeed in all your projects, whatever their size or specific requirements.

Simplicity to save your time

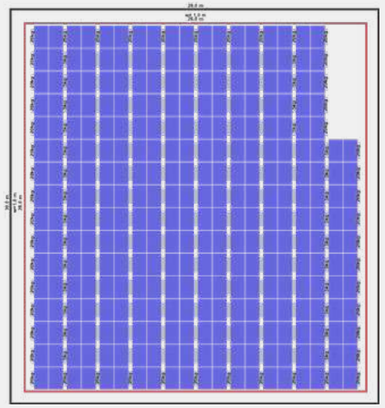
HeliosLite lets you configure your projects using a dedicated online tool. By simply entering the characteristics of your project, you can generate the optimum ballast and layout calculation.

In addition to ensuring the best possible project design, you also streamline your processes at each step of the project.

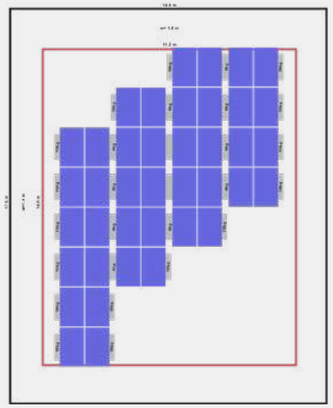
- Custom plants design
- Project BOM generation
- ETN ballast calculation notes
- Time saving and efficiency
- Intuitive and easy to use

Examples of projects that have selected HeliosBox East-West

127,1 kWp ground mount (wind 26m/sec, class II)



34,7 kWp rooftop (extract)



HELIOSLITE

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