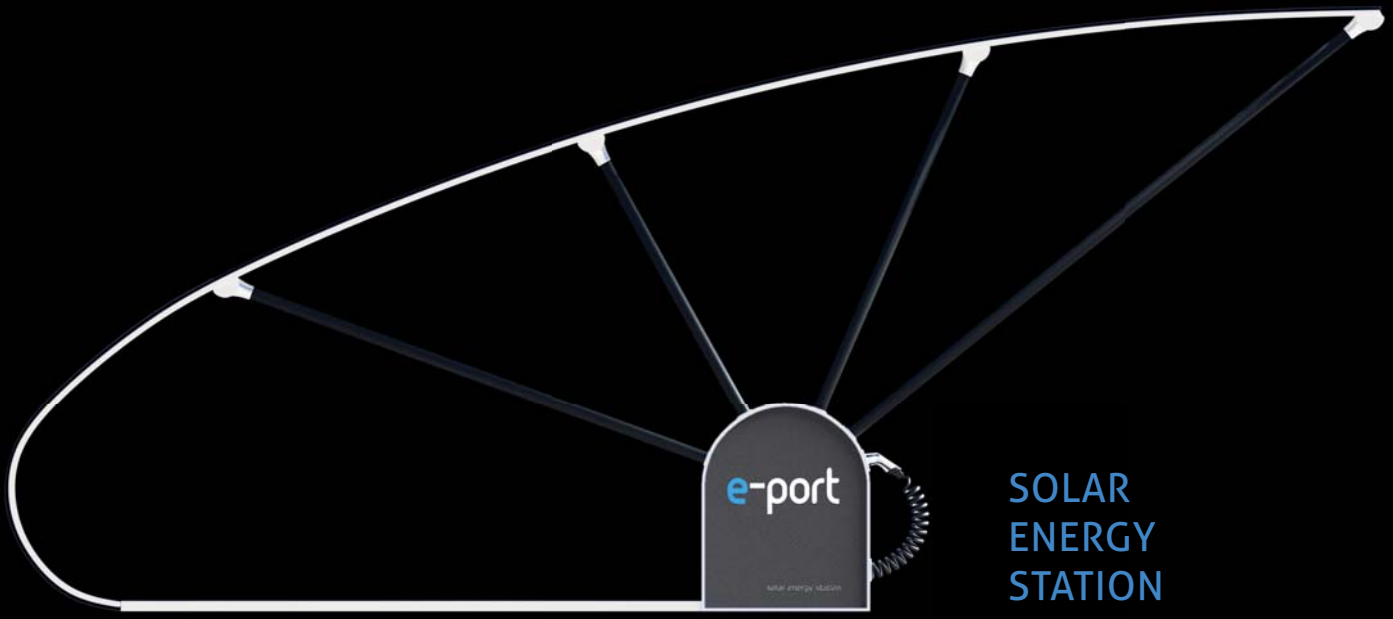
e-port®



SOLAR
ENERGY
STATION

ZERO E-MISSION

With our passion for innovation we develop ground-breaking new solutions for an ecological and sustainable future.

With our long-lasting experience in the fields of lightweight technology and alternative energy we contribute to a more sustainable energy production and a reduction of emission.

We are focused on lightweight and alternative energy and we contribute to sustainable production of green energy and a reduction of resource wastage.

Karl-Heinz Semlitsch
CEO Secar Technologie GmbH

FILL THE SUN IN YOUR TANK

Electric cars are an important solution for the mobility of tomorrow, but electricity as fuel makes only sense if the production is environmentally beneficial.
The innovative solution for that is E-Port®.

E-Port® is a radical new, patented solar carport, convincing with modern design and engineering perfection. It protects cars parked below from weather exposure and charges electrical vehicles at the same time with stored electricity.

SUSTAINABILITY

The sun is the biggest energy resource in our universe. The direct solar radiation of just one hour would cover the worldwide necessary energy consumption per year of our planet. With the help of new, green technologies as solar heat or photovoltaics we can directly convert sunlight into net energy.

SECAR E-Port® is a flexible and efficient solution to win energy, store it directly in a battery and load your electric vehicle or use the energy in the private home or corporate building.

INDEPENDENT ENERGY

Energy out of green technologies is the only way of e-mobility to be equal-zero-emission.
The E-Port® fulfils this demand and allows the production and use of energy only with the power of the sun. It can be incorporated into the grid or stand fully alone as an autarkical solar energy station transferring the electricity into connected energy storage.

DESIGN

The iconic design of E-Port® creates an architectural landmark in every location. The first solar-composite-carport of the world convinces with its fully embedded solar modules. Components made of carbon fibre support the incredible stability of the structure.

The use of high-tech materials and the clear design language result in optical clearance and an excellent price/performance ratio.

e-port® SOLAR ENERGY STATION

e-port®

DRIVE WITH THE POWER OF THE SUN!

Our Zero E-Mission

The E-Port® family is our contribution for the smart cities of the future and allows emission-free mobility.

Instead of building solar parks on greenfield sites, E-Port® uses already covered areas for the energy production. This reduces the environmental destruction and carbon footprint.

The E-Port®

The E-Port® is the first composite-solar carport of the world and offers its customers a number of advantages:

- Rain, snow and hail protection
- Shadowed parking lot
- Autarkical production and storage of energy
- Energy supply for charging without impact on electricity network
- Stabilization of the smart grid

e-port® SOLAR ENERGY STATION

The E-Port®

In contrast to conventional loading points , E-Port® want to give its customers the best possible customer experience. Therefore it offers the following features:

Fully integrated wallbox

The active control system wallbox is fully embedded in the base modules on both sides of the E-Port®. The unit controls the loading process and the storage of energy. The inverter is also supplied as part of this package.

Integrated Charging Plug

A Type 2 charging plug is integrated in the base unit. The plug is supported by a spiral cable which is supported by a mechanism in order to not have cables lying on the ground.
Wallbox, cable and charging plug are designed for rapid charging. The E-Port® offers a loading performance of 22 kW.

e-port® SOLAR ENERGY STATION

Hybrid material design

E-Port® is the first composite-solar-carport in the world. It catches one's eye through its unique design and hybrid material mix.

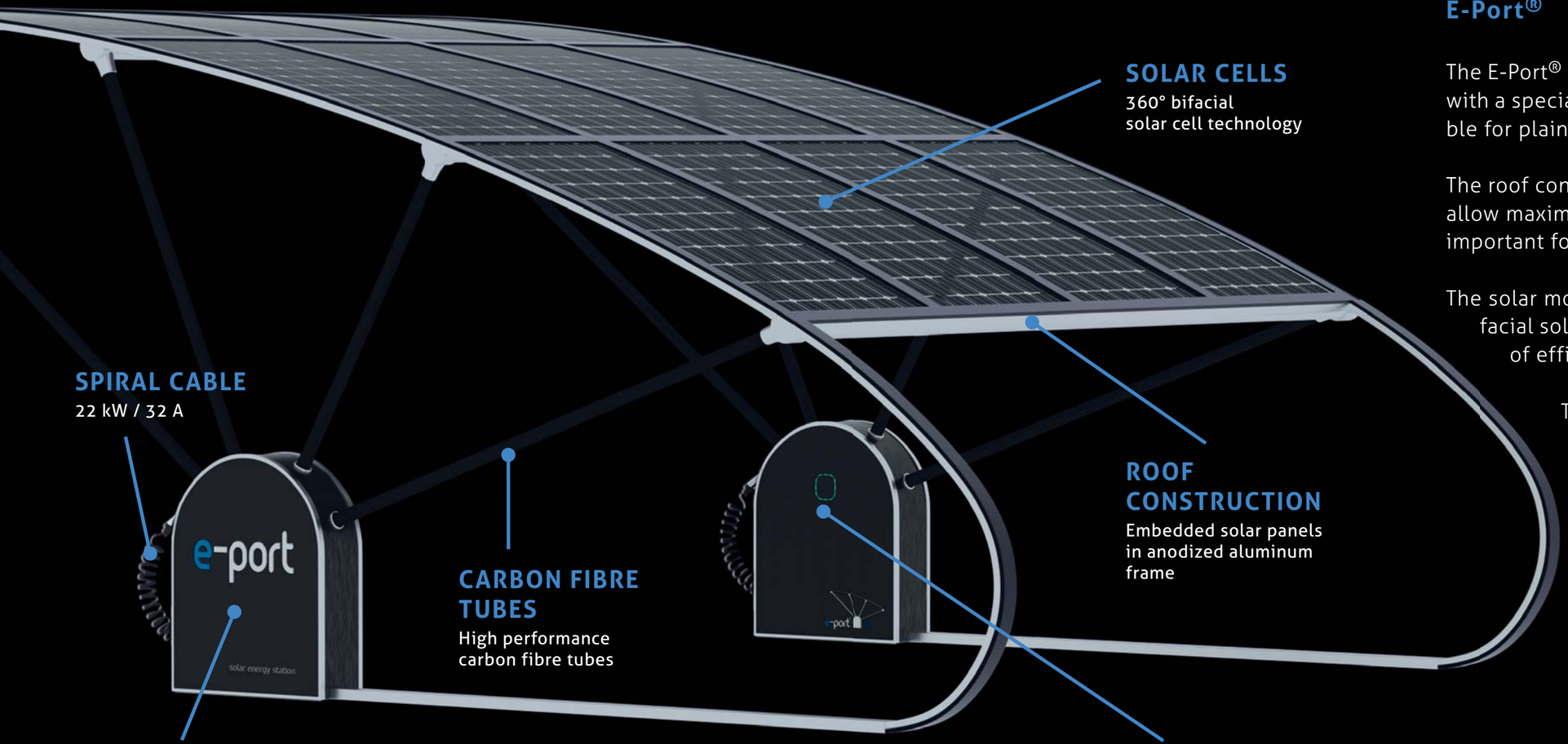
The combination of different materials allows new ways of engineering, innovative production methods and new freedom in design.

The roof construction is carried by high-tensile carbon fibre tubes. These pipes merge into specifically developed knot systems made of aluminum and allow therefore a perfect force transmission.

Integrated LED lights

A LED lighting system is embedded in the roof construction of E-Port®.

It has a motion sensor which allows automated lighting of the solar energy station.



SOLAR CELLS
360° bifacial
solar cell technology

SPIRAL CABLE
22 kW / 32 A

CARBON FIBRE TUBES
High performance
carbon fibre tubes

ROOF CONSTRUCTION
Embedded solar panels
in anodized aluminum
frame

BASE MODULE
The consoles can be designed individually, also with LED lighting.
This is an ideal chance to promote your brand or allow sponsorship in a special place.

WALLBOX
Integrated control unit:
Limit 22 kW / 32 A

E-Port®

The E-Port® is either mounted on a concrete foundation or with a special earth anchor system. Both options are suitable for plain or sloping terrain.

The roof construction is carried by carbon fibre tubes that allow maximum stability at lowest possible weight. This is important for high stresses caused by wind and snow.

The solar modules are equipped with the newest 360° bifacial solar cell technology and deliver a higher degree of efficiency.

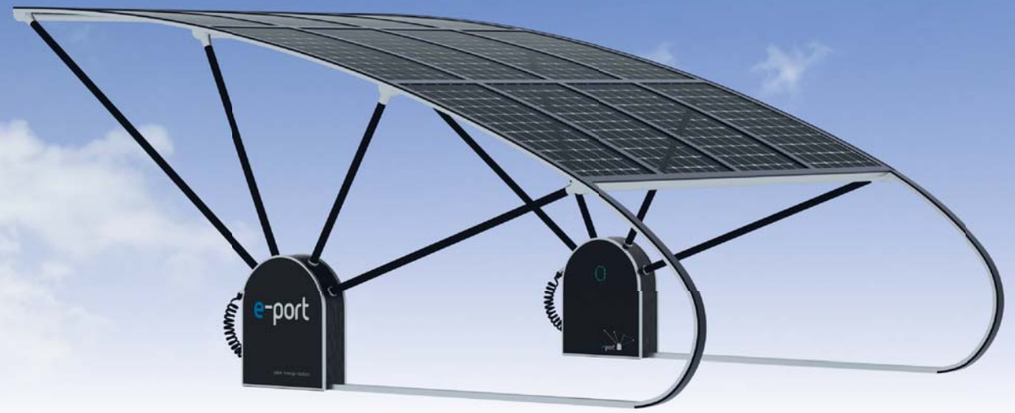
The base modules on both sides are made of stainless steel and incorporate the wallbox which is the central control unit of the carport.

Also completely embedded is of the charging system which consists of a spiral cable and a type 2 charging plug.

Base module with individual logo and LED lighting


e-port
MADE IN AUSTRIA

E-Port® Single

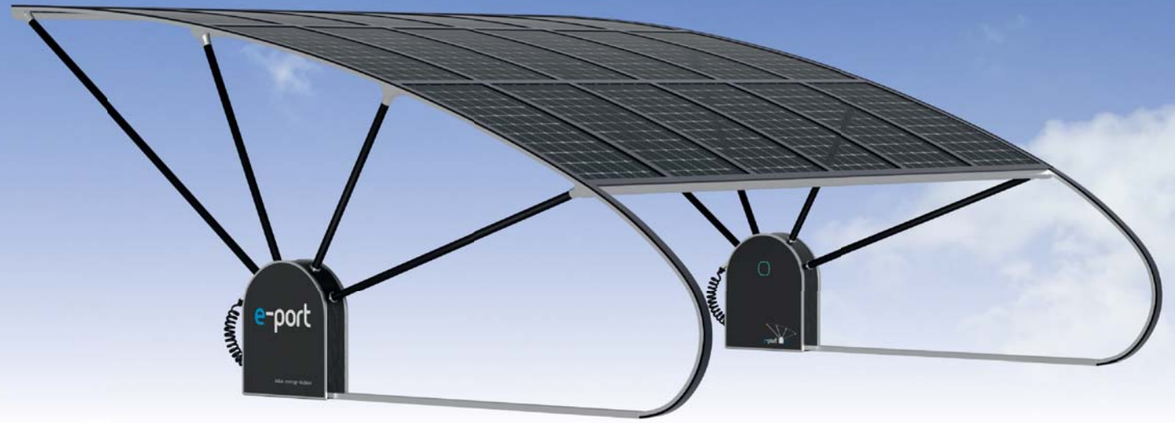


The E-Port®
designed for
orientation south

Technical data

Dimensions	6.690 x 4.450 x 2.920 mm
Roof area in m²	24 m²
Type of solar modules	360° bifacial glass modules
Nr. of solar modules	12
Power of E-Port® in kWp	4 kWp
Power of modules in Wp	330
Energy storage unit	Battery unit optional
Colour (of anodization)	silver or black
Location conditions	Snow and wind load zone 2 (Austria)
Electrical connection	400 V
Wallbox performance	22 kW / 32 A

E-Port® Twin



The E-Port®
designed for
orientation south

Technical data

Dimensions	6.690 x 6.540 x 2.920 mm
Roof area in m²	37,2 m²
Type of solar modules	360° bifacial glass modules
Nr. of solar modules	18
Power of E-Port® in kWp	6 kWp
Power of modules in Wp	330
Energy storage unit	Battery unit optional
Colour (of anodization)	silver or black
Location conditions	Snow and wind load zone 2 (Austria)
Electrical connection	400 V
Wallbox performance	22 kW / 32 A

E-Port® Single X

The E-Port® designed for orientation east-west – Possibility of drive through

Technical data

Dimensions	5.821 x 4.450 x 2.920 mm
Roof area in m²	24 m²
Type of solar modules	360° bifacial glass modules
Nr. of solar modules	12
Power of E-Port® in kWp	4 kWp
Power of modules in Wp	330
Energy storage unit	Battery unit optional
Colour (of anodization)	silver or black
Location conditions	Snow and wind load zone 2 (Austria)
Electrical connection	400 V
Wallbox performance	22 kW / 32 A

E-Port® Twin X

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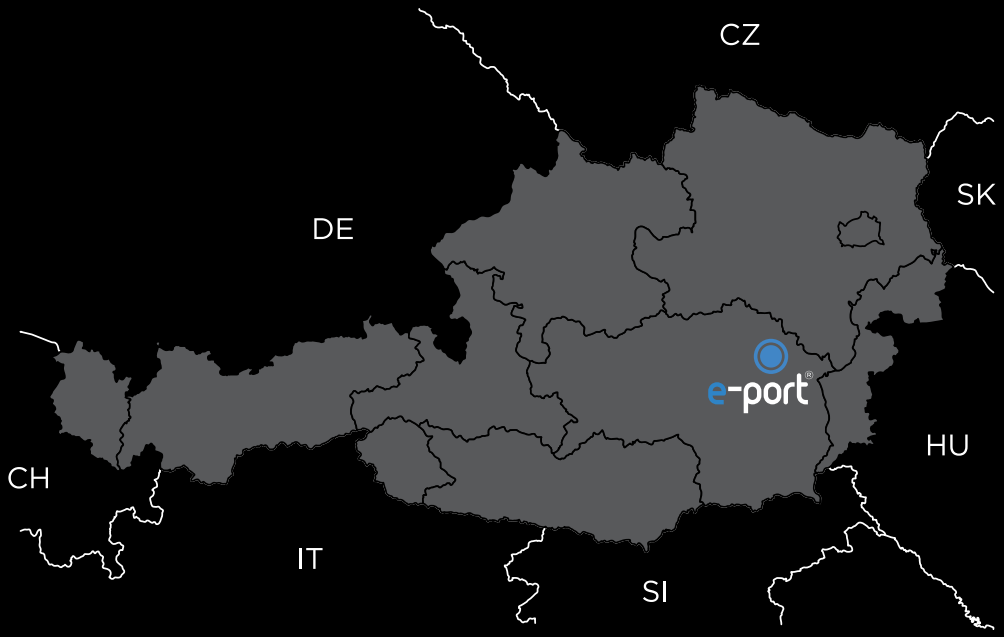
Wallbox performance	22 kW / 32 A

e-port®

e-port®
SOLAR
ENERGY
STATION

www.e-port.at



earth: shutterstock / graphic: www.hwsweb.at

AUSTRIA

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