FROM SOLAR CARPORTS
TO SMART ECOSYSTEM



CARPORIO

BEYOND CARPORTS

At Carporio, we believe true innovation goes beyond construction. We create smart ecosystems that connect solar energy, sustainable mobility, and intelligent management into one modular solution.

Made for commercial and logistics parks, municipalities, and companies committed to a sustainable future, Carporio transforms traditional parking spaces into living, breathing ecosystems of clean energy and intelligent solutions. We make the transition easy by offering everything you need — seamlessly integrated and ready to scale with your vision.

With over 30 years of engineering expertise, we deliver quality, reliability, and innovation you can trust. Proudly crafted in the Czech Republic, our solutions reflect the precision and spirit of honest craftsmanship.

BUILT WITH PASSION

Carporio is more than just structures — it's a team of passionate professionals who put real heart, energy, and dedication into every project and your success.


CARPORIO

CARPORIO ECOSYSTEM

At Carporio, we build more than structures — we create sustainable ecosystems where energy, technology, and design work in harmony.

Our modular solutions allow your projects to grow smarter, more efficiently, and with greater respect for nature.

SOLAR CARPORTS
Shelter vehicles, produce clean energy, and enhance your parking infrastructure.

CHARGING STATIONS
Seamlessly integrated EV charging solutions to meet growing demand.

SMART PARKING
Advanced systems for dynamic management of parking, traffic, and energy usage.

ENERGY SYSTEMS
Battery storage and smart energy management for maximum efficiency.

SOLAR POWER PLANTS
Tailor-made photovoltaic installations for large-scale energy production.

RAINWATER MANAGEMENT
Sustainable solutions to collect, store, and reuse rainwater for environmental savings.





COST SAVINGS
Integrated systems reduce investment and operational costs.

SUSTAINABILITY
Minimized carbon footprint, maximized resource efficiency.

FLEXIBILITY
Modular solutions that can easily expand and adapt to any layout, project size, or future growth.

DESIGN EXCELLENCE
Robust, aesthetic solutions tailored to your vision.

TRUSTED ENGINEERING
Backed by over 30 years of manufacturing expertise.

CARPORT L





Our solar carports do much more than just protect vehicles. They transform parking areas into energy-generating spaces, seamlessly combining shelter, sustainability, and design. By integrating photovoltaic technology into functional structures, we turn underused surfaces into efficient energy hubs — essential foundations for a modern, self-sufficient ecosystem.

SOLAR CARPORT L

The Handsome

Robust and timeless, Carport L is built for large open parking areas where simplicity and strength matter most. Its symmetrical design and roof slope in one direction allow for efficient installation and clean energy integration.

This model offers full modularity and flexibility in dimension and layout. Whether installed as a stand-alone or in large rows, it forms a stable and aesthetic base for any Carporio ecosystem project.

SOLAR CARPORT LL

The lightweight version delivers an optimal balance between strength, functionality, and investment costs.

TECHNICAL SPECIFICATIONS **CARPORT L / LL**

Height	4 000 mm
Clearance height	2 400 mm
Parking space width	2 spaces – 5 000 mm 3 spaces – 7 500 mm 4 spaces – 10 000 mm
Depth	4 500 - 5 960 mm
Roof slope	11° / -11°
Roof covering	Photovoltaic panels / Trapezoidal sheet metal 0,75 mm (RAL 25 my / protective coating 7-10 my)
Panel orientation	Horizontal / Vertical
Roof area / module size	2 spaces: 24 m^2 / 12 modules – 5,1 kWp ** 3 spaces: 36 m^2 / 18 modules – 8,1 kWp ** 4 spaces: 48 m^2 / 24 modules – 10,2 kWp **
Main material	Steel EN 10025-2 (S235/S275/S450)
Small components	Stainless steel A2
Corrosion protection	Hot-dip galvanization (/+ powder coating)
Foundations	Reinforced concrete foundations

*More specifications **

CARPORT Y





SOLAR CARPORT Y

The Balanced

Carport Y features a symmetrical Y-shaped frame with dual-pitch roof optimized for east-west orientation. This design balances energy production throughout the day and enables efficient space use in large-capacity areas.

Built for modern logistics and commercial zones, it's a functional, high-performance solution that adapts to long parking rows and tight urban grids. Always ready to scale with your needs.

SOLAR CARPORT YL

The lightweight version delivers an optimal balance between strength, functionality, and investment costs.

TECHNICAL SPECIFICATIONS **CARPORT Y/YL**

Height	**4 000 mm**
Clearance height	**2 400 mm**
Parking space width	2 spaces – 5 000 mm 3 spaces – 7 500 mm 4 spaces – 10 000 mm
Depth	**9 000 - 12 000 mm**
Roof slope	**11° / -11°**
Roof covering	**Photovoltaic panels / Trapezoidal sheet metal 0,75 mm (RAL 25 my / protective coating 7-10 my)**
Panel orientation	**Horizontal / Vertical**
Roof area / module size	**4 spaces: 48 m² / 24 modules – 10,8 kWp ** 6 spaces: 72 m² / 36 modules – 16,2 kWp ** 8 spaces: 96 m² / 48 modules – 21,6 kWp ****
Main material	**Steel EN 10025-2 (S235/S275/S450)**
Small components	**Stainless steel A2**
Corrosion protection	Hot-dip galvanization (/+ powder coating)
Foundations	**Reinforced concrete foundations**

*More specifications **

CARPORT T





SOLAR CARPORT T

The Powerhouse

Carport T delivers clarity in form and function. With a central column and single-pitch roof, it offers balanced structure, smooth vehicle access, and modularity in long linear layouts.

Its clean architectural lines suit both modern and traditional environments. Optimized for south-facing orientation, it integrates seamlessly into the Carporio ecosystem as a strong and scalable solar infrastructure element.

SOLAR CARPORT TL

The lightweight version delivers an optimal balance between strength, functionality, and investment costs.

TECHNICAL SPECIFICATIONS **CARPORT T/TL**

Height	4 000 mm
Clearance height	2 400 mm
Parking space width	2 spaces – 5 000 mm 3 spaces – 7 500 mm 4 spaces – 10 000 mm
Depth	9 000 - 12 000 mm
Roof slope	11°
Roof covering	Photovoltaic panels / Trapezoidal sheet metal 0,75 mm (RAL 25 my / protective coating 7-10 my)
Panel orientation	Horizontal / Vertical
Roof area / module size	4 spaces: 48 m^2 / 24 modules – 10,8 kWp ** 6 spaces: 72 m^2 / 36 modules – 16,2 kWp ** 8 spaces: 96 m^2 / 48 modules – 21,6 kWp **
Main material	Steel EN 10025-2 (S235/S275/S450)
Small components	Stainless steel A2
Corrosion protection	Hot-dip galvanization (/+ powder coating)
Foundations	Reinforced concrete foundations

*More specifications **

CARPORT U



*	Manufacturing standards	EN IS 9606, EN 1461, ISO 9001, ISO 14001
	Design standards	EN 1990: Basic principles for structural design, EN 1991-1-1: Structural loads, EN 1991-1-3: Snow loads, EN 1991-1-4: Wind loads
	Snow load	2,5 kN/m^2
	Wind load	27,5 m/s
	Warranty	15 years on the structure, 5 years on surface treatment
	Optional accessories	Photovoltaic panels, DC charging station, wallbox, LED lighting, branding
**	Photovoltaic module	1 757 × 1 134 × 30 mm / 450 Wp

SOLAR CARPORT U

The All-Rounder

Designed for flexibility and speed, Carport U fits almost anywhere — without heavy construction work. Thanks to installation on ground screws or foundations, it's ideal for tight sites or projects with minimal disruption.

Its single-pitch roof with south-facing orientation makes it perfect for compact solar setups. With clean lines and hidden joints, it balances smart design with practical use.

TECHNICAL SPECIFICATIONS **CARPORT U**

Height	3 590 mm
Clearance height	2 400 mm
Parking space width	2 spaces – 5 000 mm 3 spaces – 7 500 mm 4 spaces – 10 000 mm
Depth	4 500 - 12 000 mm
Roof slope	10°
Roof covering	Photovoltaic panels / Trapezoidal sheet metal 0,75 mm (RAL 25 my / protective coating 7-10 my)
Panel orientation	Horizontal / Vertical
Roof area / module size	2 spaces: 24 m^2 / 12 modules – 5,1 kWp ** 3 spaces: 36 m^2 / 18 modules – 8,1 kWp ** 4 spaces: 48 m^2 / 24 modules – 10,2 kWp **
Main material	Steel EN 10025-2 (S235/S275/S450)
Small components	Stainless steel A2
Corrosion protection	Hot-dip galvanization (/+ powder coating)
Foundations	Ground screws/piles / reinforced concrete foundations

*More specifications **

SUSTAINABLE SOLUTIONS
IN ONE ECOSYSTEM



CHARGING STATIONS

Carporio's charging solutions bring seamless EV infrastructure directly to your projects. Whether integrated into solar carports or installed as stand-alone stations, our chargers are ready to meet the rapidly growing demand for electric mobility. Smart, scalable, and easy to manage — essential components for future-proof, green infrastructure.



SMART PARKING

We bring intelligence into parking. Carporio's smart parking systems enable dynamic management of spaces, optimize traffic flow, and balance energy usage. Thanks to integrated monitoring, data-driven insights, and energy control, parking areas become smarter, greener, and more user-friendly — a vital part of a modern energy ecosystem.



ENERGY SYSTEMS

Energy storage and management are key to maximizing the potential of renewable sources. Our systems store surplus solar energy and intelligently distribute it where and when it's needed most. Whether for peak shaving, backup power, or smart load management, Carporio's energy solutions ensure your ecosystem operates with maximum efficiency and independence.



SOLAR POWER PLANTS

When your project demands more energy, Carporio designs and delivers tailor-made photovoltaic installations. Our solar plants are customized to fit your needs, site conditions, and energy goals — providing reliable, clean energy at scale. Every installation is seamlessly integrated into the broader Carporio ecosystem for a unified and efficient energy network.



RAINWATER MANAGEMENT

Sustainability goes beyond energy — and so does Carporio. Our rainwater management solutions allow you to collect, store, and reuse rainwater efficiently, reducing environmental impact and operating costs. Smart water strategies integrate naturally into your site, enhancing your green footprint and supporting long-term ecological balance.

ENGINEERED WITH PASSION
IN THE CZECH REPUBLIC



CARPORIO

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