

WITH THE SUN'S POWER SOLAR CARPORTS

4. INNOVATIONS AWARD
— 2024 —
**INTEGRIERTE
PHOTOVOLTAIK**

TECHNOLOGIE
PLATTFORM
PHOTOVOLTAIK

AEP's solar carports combine the generation of renewable energy with state-of-the-art PV technology and practical parking lot functionality in an innovative overall solution with a timeless design.

Our PV carports use existing areas such as parking spaces and maneuvering areas without taking up additional open space. With a foundation-free system, we enable quick, minimally invasive installation, while the watertight integration of the PV modules protects your vehicle fleet.

Integrated charging stations create comprehensive usability and contribute to a win-win situation for companies, people and the environment.

SYSTEM SPECIFICATION

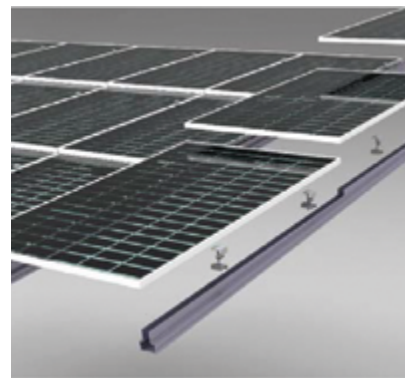
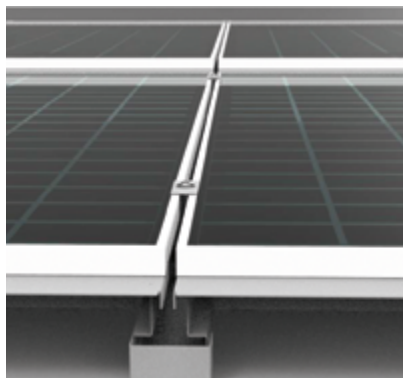
Parking lots / Carport	5 parking lots
Parking lot width	2.50–3.00 m
Parking lot length	5.00 m
Distance between uprights	max. 14.00 m (5 parking lots with 2.80 m width)
Drive-through height	2.50 m
Roof depth	5.50 m
Roof pitch	6°
Snow load	up to 250 kg/m ² (standard variant) up to 500 kg/m ² (height variant*) > 500 kg/m ² (mountain variant*)
kWp per parking lot	approx. 3.0 kWp
Charging stations	optional*

* Surcharge



SPECIAL PV RAIL SYSTEM WITHOUT SUB-ROOF

Our specially developed rail system integrates the PV modules directly into the roof covering in a watertight, low-maintenance and durable manner without the use of high-maintenance sealing rubbers due to UV embrittlement. In contrast to other systems, our bifacial glass-glass PV construction does not require an expensive sub-roof.



**GREEN
POWER**



**COVERED
PARKING LOTS**



**SITE
BENEFITS**



**ENVIRONMENTAL
PROTECTION**



**INVEST
SUSTAINABLY**

SINGLE ROW



DOUBLE ROW



- ✓ **INNOVATIVE OVERALL SOLUTION**
Upgrade for sealed car parks & open spaces without loss of parking space, with optional charging stations
- ✓ **FROM A SINGLE SOURCE**
Planning, calculation, production, assembly, electrification, site management and subsidy processing
- ✓ **VARIOUS DESIGNS**
Stand variants, concrete, wood or metal construction, special shapes possible
- ✓ **FOUNDATIONLESS CONSTRUCTION**
No foundation required, optionally possible
- ✓ **INNOVATIVE ROOF CONCEPT**
Maintenance-free, durable rail system
- ✓ **ANY ORIENTATION**
due to low 6° roof pitch