

**QUALITY AND DESIGN**

- high performance solar panels
- durable construction
- modern design

**MODULAR DESIGN**

- ideal for businesses, industry, and local authorities
- can cover larger parking areas

**DOUBLE MODEL I TECHNICAL DATASHEET**

PREMIUM QUALITÄT  
MADE IN GERMANY

car parking spaces   roof pitch   construction	2 rows x 2 spaces = 4 spaces   trafficable on both sides   10 degree   freestanding
material	hot-dip galvanised steel EN 10025 EN 10034 S235JR aluminium nature (verge cladding)
total length   total width entry height   clearance height   clearance width	11.232 mm   5.782 mm 4.088 mm   2.936 mm   2.480 mm
roof construction	2-surface trough roof with internal rain gutter   trapezoidal sheet thickness 0.75 mm   JI 45.333.1000 hot-dip galvanised   powder-coated in RAL
roof width   partial roof length	5.782 mm   5.580 mm

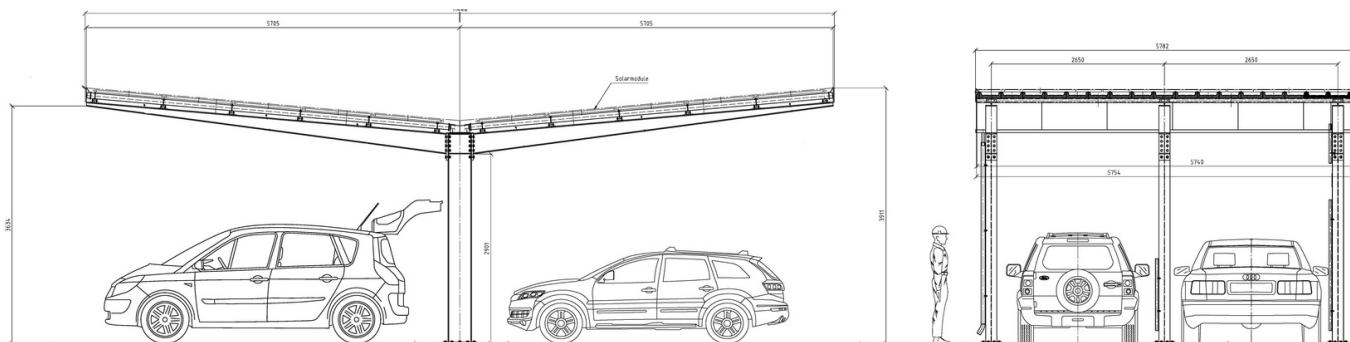
**PHOTOVOLTAIC SYSTEM WITH HIGH PERFORMANCE SOLAR PANELS**

manufacturer   substructure	according to customer requirements   aluminium
panel weight   number of panels	21.1 kg / panel   6 rows x 5 panels = 30 panels
panel performance   $\Sigma$ inst. panel output   string inverter	>415 wp   12.45 kWp   12 kWp

**CONCRETE FOUNDATION | TESTED STRUCTURAL ENGINEERING**

concrete foundation	design as reinforced sleeve foundation
wind load   snow load zone*	2

\*can also be tested for higher wind and snow load zones



**CARTHEIA is an innovation from umetec GmbH**

**The steel construction company has been producing for the wind and solar industries for 20 years**



**QUALITY AND DESIGN**

- high performance solar panels
- durable construction
- modern design

**MODULAR DESIGN**

- ideal for businesses, industry, and local authorities
- also for mounting on building walls

**SINGLE MODEL I TECHNICAL DATASHEET**

PREMIUM QUALITÄT  
MADE IN GERMANY

car parking spaces   roof pitch   construction	1 row x 2 spaces = 2 spaces   trafficable on one side   10 degree   freestanding
material	hot-dip galvanised steel EN 10025 EN 10034 S235JR aluminium nature (verge cladding)
total length   total width entry height   clearance height   clearance width	5.911 mm   5.800 mm 4.041 mm   2.825 mm   2.480 mm
roof construction	1-surface cantilever roof with adjacent gutter   trapezoidal sheet metal thickness 0.75 mm   JI 45.333.1000 hot-dip galvanised   powder coated in RAL
roof width   partial roof length	5.800 mm   5.911 mm

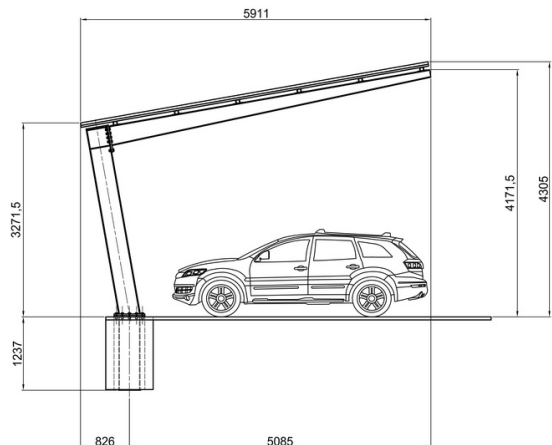
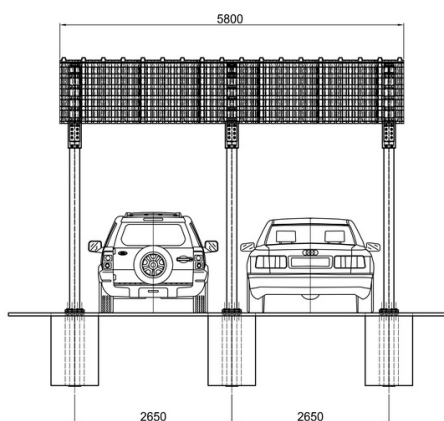
**PHOTOVOLTAIC SYSTEM WITH HIGH PERFORMANCE SOLAR PANELS**

manufacturer   substructure	according to customer requirements   aluminium
panel weight   number of panels	21.1 kg / panel   3 rows x 5 panels = 15 panels
panel performance   $\Sigma$ inst. panel output   string inverter	>415 wp   6.2 kWp   6 kWp

**CONCRETE FOUNDATION | TESTED STRUCTURAL ENGINEERING**

concrete foundation	design as reinforced sleeve foundation
wind load   snow load zone*	2

\*can also be tested for higher wind and snow load zones



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