

Solar Parking • Carport LS-1

A harmonious combination of design and function



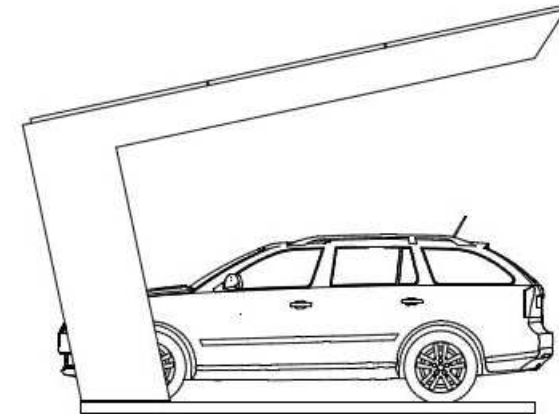
Carport LS-1 - 10 Degrees Inclination



- **Long span up to 15 meters** - provides uninterrupted access.
- **Hidden foundation** - no concrete bollards required
- **Kits** for double glass or standard PV modules
- **Hidden inverter** – an elegant, safe and accessible solution
- **Hidden drainage** – downpipes are incorporated into support columns.



BLUETOP
solar parking



Bluetop Long Span Solar Carports...

...is a range of standardized carport designs. The innovative structures are the basis for SOLAR PARKING - long lasting green utilization of your parking area. The structures are being supplied as complete kits and solutions for all common PV-panels.

Innovative product

New patented manufacturing techniques combined with innovative designs makes solar parking affordable and attractive !

Installation

The roof structures including the PV-panels are assembled on ground level to optimize security and costs.

Materials

Posts, side rafters, sheets: hot galvanized according to DIN EN ISO-1461
Roof-profiles made of zinc-magnesium in accordance to DIN 55928-8
PV-mounting system: stainless steel or aluminium.

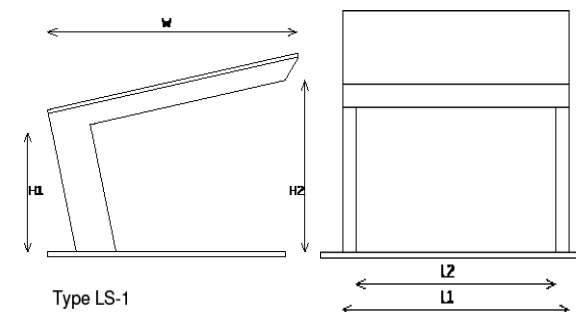
	Configuration*				Measurements (mm)				
Horizontal mounting	Cars*	Modules	Layout	kWp	L1	L2	W	H1	H2
LS1-SH70	2.8	20	5x4	5.2	6930	6330	5130	2700	3550
LS1-SH85	3.4	25	5x5	6.5	8620	8020	5130	2700	3550
LS1-SH105	4.2	30	5x6	7.8	10310	9710	5130	2700	3550
LS1-SH120	4.8	35	5x7	9.1	12000	1140	5130	2700	3550
LS1-SH125	5	35	5x7	9.1	12500	11900	5130	2700	3550
LS1-SH135	5.4	40	5x8	10.4	13690	13090	5130	2700	3550
LS1-SH155	6.2	45	5x9	11.7	15380	14780	5130	2700	3550

Vertical mounting	Cars*	Modules	Layout	kWp	L1	L2	W	H1	H2
LS1-S75	3	21	3x7	5.5	7564	6964	5130	2700	3550
LS1-S85	3.4	24	3x8	6.2	8578	7978	5130	2700	3550
LS1-S95	3.8	27	3x9	7	9592	8992	5130	2700	3550
LS1-S105	4.2	30	3x10	7.8	10606	10006	5130	2700	3550
LS1-S115	4.6	33	3x11	8.6	11620	11020	5130	2700	3550
LS1-S125	5	36	3x12	9.4	12634	12034	5130	2700	3550
LS1-S135	5.4	39	3x13	10.1	13648	13048	5130	2700	3550
LS1-S145	5.8	42	3x14	10.9	14662	14062	5130	2700	3550

Vertical transparent mounting	Cars*	Modules	Layout	kWp	L1	L2	W	H1	H2
LS1-F75	3	21	3x7	5.5	7564	6964	5130	2700	3550
LS1-F85	3.4	24	3x8	6.2	8578	7978	5130	2700	3550
LS1-F95	3.8	27	3x9	7	9592	8992	5130	2700	3550
LS1-F105	4.2	30	3x10	7.8	10606	10006	5130	2700	3550
LS1-F115	4.6	33	3x11	8.6	11620	11020	5130	2700	3550
LS1-F125	5	36	3x12	9.4	12634	12034	5130	2700	3550
LS1-F135	5.4	39	3x13	10.1	13648	13048	5130	2700	3550
LS1-F145	5.8	42	3x14	10.9	14662	14062	5130	2700	3550

* Figures for solar are based on 60-cells, 260 Wp modules. Maximum size: 168x100 cm

* Number of cars is just a guide, based on 2.5m per car



Structural Standards

Standard structural conditions: Weight solar panels and mounting system: $G_k = 0,15 \text{ kN/m}^2$; Snow: $S_k = 0,8 \text{ kN/m}^2$ / Wind: $q_{max,k} = 0,64 \text{ kN/m}^2$.

Structural construction: EN 1990:2007, 2. edition, based on EN 1990 A1:2006, DS/EN 1990 A1/AC:2010, EN 1990 DK NA:2013. W

Snow load: EN 1991-1-3:2007, 2. edition, based on EN 1991-1-3/AC:2009, EN 1991-1-3 DK NA:2012.

Wind load: EN 1991-1-4 2007, 2. edition, based on EN 1991-1-4/A1:2010, EN 1991-1-4 DK NA:2010, EN 1991-1-4 DK NA:2010 addition 1:2010, DS/EN 1991-1-4/AC:2010.

Accident load: EN 1991-1-7:2007, 2. edition, based on EN 1991-1-7/AC:2010, EN 1991-1-7 DK NA:2013.

Steel construction: EN 1993-1-1 + AC:2007, 2. edition, based on EN 1993-1-1 AC/2009, EN 1993-1-1 DK NA:2013

Pressed steel elements and sheets, additions: EN 1993-1-3:2007, 2. edition, based on EN 1993-1-3/AC:2010, EN 1993-1-3 DK NA:2013