



20★
YEARS
WARRANTY

ATTRACTIVE SOLUTIONS FOR ANY PARKING SPACE

CERTIFIED DOUBLE GLASS MODULES ACCORDING
TO EN12600 FOR OVERHEAD MOUNTING



PV CARPORTS FROM THE MARKET LEADER FOR TRANSPARENT PV ROOFS



02/2023

www.gridparity.ag



WE KNOW WHAT MAKES A SOLAR CARPORT UNIQUE...



- 1 Design as single carport, double carport, pent roof or saddle roof
- 2 Waterproof module mounting without 2nd roof skin
- 3 High stability: snow loads >5400 Pa & wind loads >2400 Pa
- 4 Light transmission: „let the sunshine in!“
- 5 Integrated LED lighting (optional)
- 6 Easy assembly with detailed assembly instructions
- 7 Easy entry & exit.
Entry width: 5, 6 or 7 m, depth: 5 or 6 m for all types of vehicles.
- 8 Particularly light constructions, e.g.:
- 5x5m only 420kg (wood)
- modules: 320kg
- 9 Variable columns embedded in the foundation, optionally with foundation plate for any subsoil
- 10 Optional: colored steel columns for individual design
- 11 100% recyclable materials „cradle to cradle“.
- 12 Hi-Tech „Designed in Germany“ and Made in Europe



NEW! Optionally with higher power (B72/6 - 450Wp modules)

MATERIAL QUALITY

EXCLUSIVE HIGH-QUALITY BUILDING MATERIALS TESTED FOR HARMFUL SUBSTANCES. OUR WOOD IS OBTAINED EXCLUSIVELY FROM SUSTAINABLE FORESTRY. FOR US, THIS ALSO INCLUDES PLANTING 100 TREES FOR EACH KIT.

The entire production chain is monitored internally as well as externally according to strict quality specifications. GridParity AG is certified according to **ISO9001** and **ISO14001**. We evaluate the high quality standards monthly internally and also externally with our suppliers in order to be able to guarantee maximum quality. In addition, all kits can be disassembled at will and reassembled at another location or recycled - in line with the motto „cradle to cradle“.



PROCESSING

OUR PV SYSTEMS ARE PLANNED, TESTED AND INSTALLED ACCORDING TO GERMAN STANDARDS. GRIDPARITY IS THE MARKET LEADER IN TRANSPARENT PV ROOFS WITH OVER 500 INSTALLATIONS.



SIMPLE ASSEMBLY



numbered parts, milled grooves in wooden profiles and intelligent connecting parts make assembly easy!

PREMIUM QUALITY

Modern, semi-transparent double glass modules

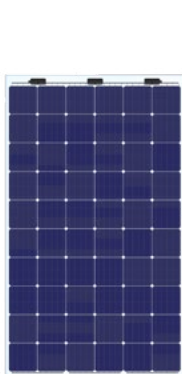
Extreme stability & durability

European quality product

CERTIFIED DOUBLE GLASS MODULES ACCORDING TO EN12600 FOR OVERHEAD MOUNTING



Module package Gr. 1 & 2:

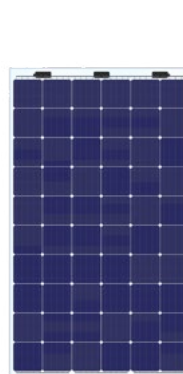


B60
320 Wp



B72
380 Wp

Module package Gr. 1/6 & 2/6:



B60/6
370 Wp



B72/6
450 Wp



CERTIFIED TO
ISO 9001:2015 / ISO 14001:2015



Electrical specification	B60 320 Wp	B72 380 Wp	B60/6 370 Wp	B72/6 450 Wp
Maximum power (Pmax)	320 W	380 W	370 W	450 W
Optimum operating voltage (Vmp)	33.2 V	39.6 V	36.9 V	44.5 V
Optimum operating current (Imp)	9.64 A	9.60 A	10.03 A	10.11 A
Open circuit voltage (Voc)	40.7 V	48.5 V	42.2 V	50.8 V
Short circuit current (Isc)	10.05 A	10.07 A	11.25 A	11.29 A
Maximum System Voltage	1000 V DC (IEC)	1000 V DC (IEC)	1500 V DC (IEC)	1500 V DC (IEC)
Operating module temperature	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C
Max. permissible series fuse	20 A	20 A	20 A	20 A
Power tolerance	0 ~ +5 W	0 ~ +5 W	0 ~ +5 W	0 ~ +5 W
Dimensions [mm], approx.	1684 x 1002 x 5	2000 x 1002 x 5	1765 x 1043 x 5	2105 x 1043 x 5
Transparency	10%	10%	10%	10%

WATERPROOF MODULE MOUNTING

For more information on module installation, request our Premium Module Installation Manual

upper aluminum profile with integrated rubber lips



Art.Nr: Z1006



Art.Nr: Z1001

lower rubber profile

Edge profile with integrated rubber lips

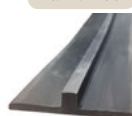
Art.Nr: Z1008



Art.Nr: Z1003

lower rubber profile

Art.Nr: Z1004



Rubber sealing profile (D)

Art.Nr: Z1005



Flat rubber (F)



Art.Nr: Z7000

„DachDicht“ sealant

SAFE ON A STABLE FOUNDATION

TWO ALTERNATIVES:

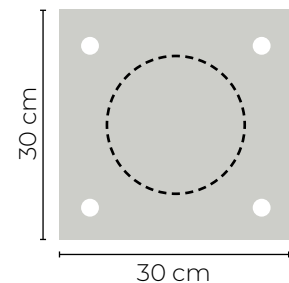
Variant 1: base plates welded with supports with holes provided.

Pour a foundation of a size of about 60 x 60 cm or $\varnothing$ 600 mm with a depth of 80 cm.

Allow the foundation to cure completely.

Now center the supports on the finished foundation points and align them straight.

Then screw the supports to the concrete foundation using concrete dowels at the designated points.



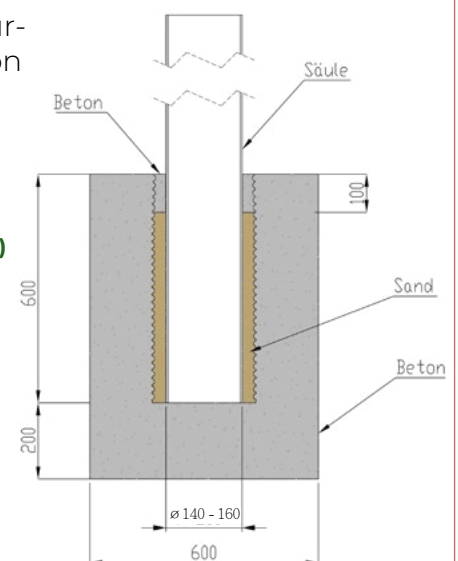
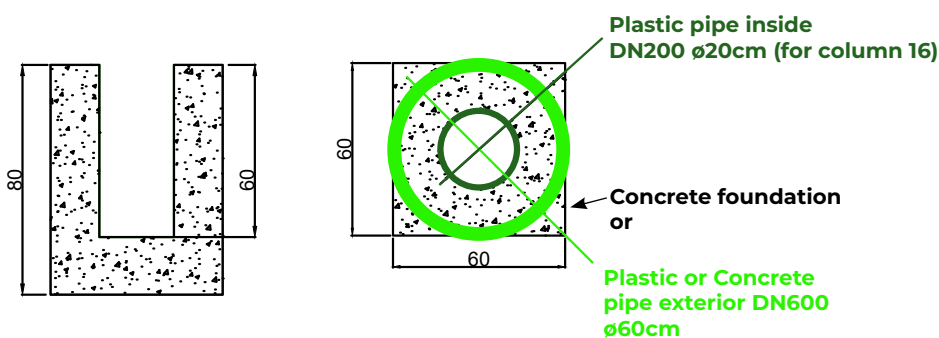
Column diameter:
Säule 16: $\varnothing$ 16 cm

Variant 2: supports embedded in foundation

we recommend formwork tubes with an outer **pipe DN600 (plastic or concrete)** and an **inner pipe DN180 or DN200 (plastic)**.

The inner pipe must be aligned centrally. The gap between the inner and outer pipe is filled with concrete.

After curing, the supports are inserted, aligned vertically and slurred with sand to approx. 10 cm below the surface (see illustration on the right).

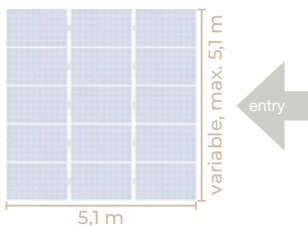


A basic kit can have the following module combinations and thus corresponding entry widths without the need for further support:

with module package size 1: B60

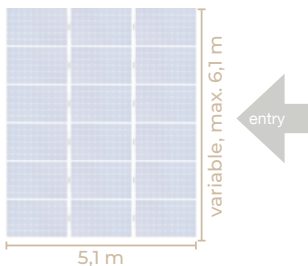
Basic kit
XXL-1

Entry width: variable, max. 5,1m
Depth: approx. 5,1m
15 Modules size 1
Total output: approx. **4,8kW**



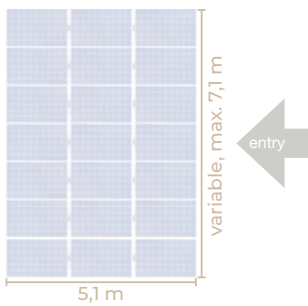
Basic kit
3XL-1

Entry width: variable, max. 6,1m
Depth: approx. 5,1m
18 Modules size 1
Total output: approx. **5,8kW**



Basic kit
4XL-1

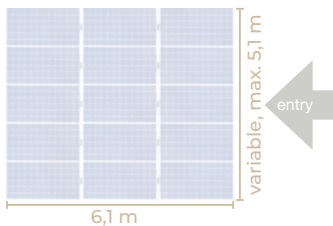
Entry width: variable, max. 7,1m
Depth: approx. 5,1m
21 Modules size 1
Total output: approx. **6,7kW**



with module package size 2: B72

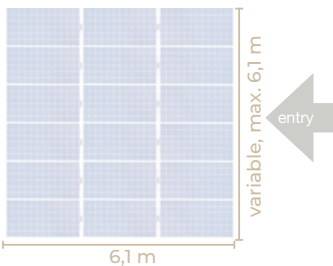
Basic kit
XXL-2

Entry width: variable, max. 5,1m
Depth: approx. 6,1 m
15 Modules size 2
Total output: approx. **5,7kW**



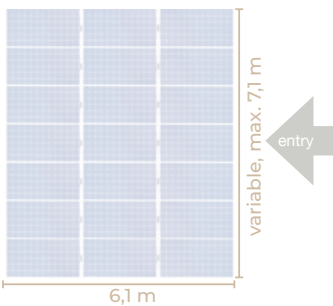
Basic kit
3XL-2

Entry width: variable, max. 6,1m
Depth: approx. 6,1 m
18 Modules size 2
Total output: approx. **6,8kW**



Basic kit
4XL-2

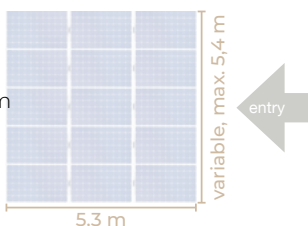
Entry width: variable, max. 7,1m
Depth: approx. 6,1 m
21 Modules size 2
Total output: approx. **8,0kW**



with module package 1/6: B60/6

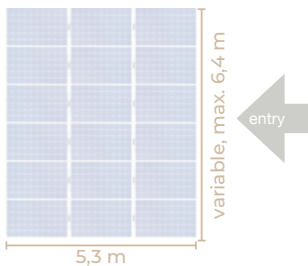
Basic kit
XXL-1/6

Entry width: variable, max. 5,4 m
Depth: approx. 5,3 m
15 Modules size 1
Total output: approx. **5,6kW**



Basic kit
3XL-1/6

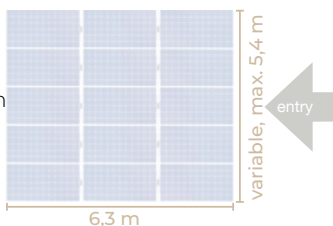
Einfahrtbreite: ca. 6,4 m
Depth: approx. 5,3 m
18 Modules size 1
Total output: approx. **5,8kW**



with module package 2/6: B72/6

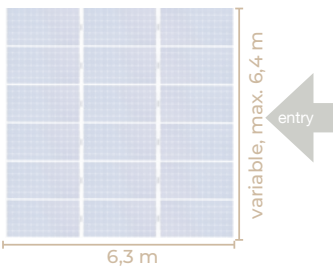
Basic kit
XXL-2/6

Entry width: variable, max. 5,4 m
Depth: approx. 6,3 m
15 Modules size 2
Total output: approx. **6,8kW**



Basic kit
3XL-2/6

Einfahrtbreite: ca. 6,4 m
Depth: approx. 6,3m m
18 Modules size 2
Total output: approx. **6,9kW**

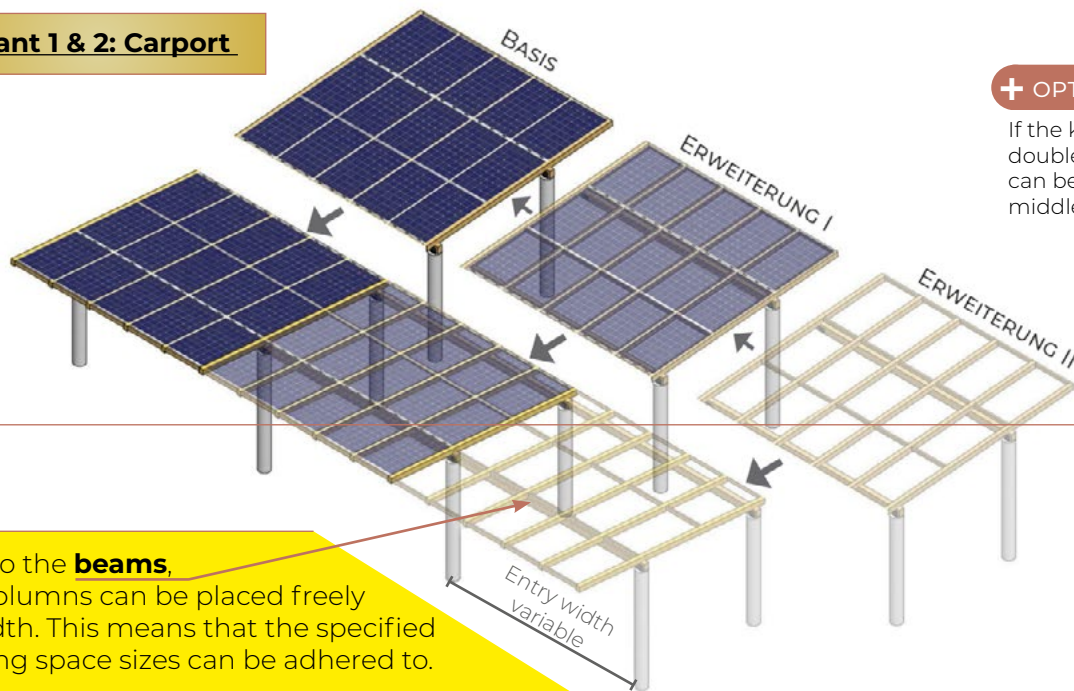


UNLIMITED

ALL BASIC KITS CAN BE EXTENDED INDEFINITELY IN LENGTH. THEY CAN ALSO BE SUPPLEMENTED AT THE REAR BY A SECOND KIT.

20★
YEARS
WARRANTY

Variant 1 & 2: Carport



+ OPT. RAIN GUTTER

If the kits are installed as double carports, a gutter can be inserted in the middle.

Due to the **beams**, the columns can be placed freely in width. This means that the specified parking space sizes can be adhered to.

Optimal use of space with stable construction. A total of 4 cars fit under one carport combination. The standard construction can be extended individually, so that the parking space can be used optimally. The technical drawings illustrate the dimensions of the carport.

Variant 3: Saddle roof carport

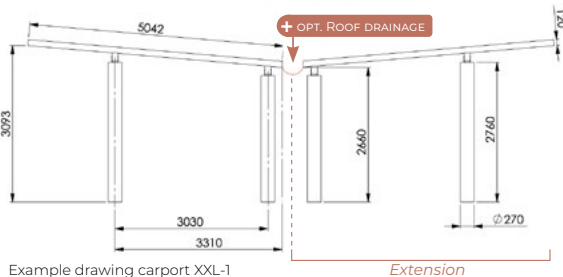


Variant 4: Pent roof carport



VERSATILE

Variant 1: Carport



Example drawing carport XXL-1

* optional sheet metal cladding, which includes the cost of connecting two carports, as well as roof drainage.

V1 L-1
(2,9kW)

V1 XL-1
(3,8kW)

V1 XXL-1
(4,8kW)

V1 3XL-1
(5,8kW)

V1 4XL-1
(6,7kW)

Available with the following **entry widths** approx:

3,1 m
(Depth: 5,1m)

4,1 m
(Depth: 5,1m)

5,1 m
(Depth: 5,1m)

6,1 m
(Depth: 5,1m)

7,1 m
(Depth: 5,1m)

Base (B60)	(H1331) incl. 9 x B60 & Fastening	(H1431) incl. 12 x B60 & Fastening	(H1531) incl. 15 x B60 & Fastening	(H1631) incl. 18 x B60 & Fastening	(H1731) incl. 21 x B60 & Fastening
Ext. (B60)	(H1391) incl. 9 x B60 & Fastening	(H1491) incl. 12 x B60 & Fastening	(H1591) incl. 15 x B60 & Fastening	(H1691) incl. 18 x B60 & Fastening	(H1791) incl. 21 x B60 & Fastening
opt. tin*			(ZH001)	(ZH003)	(ZH005)

V1 L-2
(3,4kW)

V1 XL-2
(4,6kW)

V1 XXL-2
(5,7kW)

V1 3XL-2
(6,8kW)

V1 4XL-2
(8,0kW)

Available with the following **entry widths** approx:

3,1 m
(Depth: 6,1m)

4,1 m
(Depth: 6,1m)

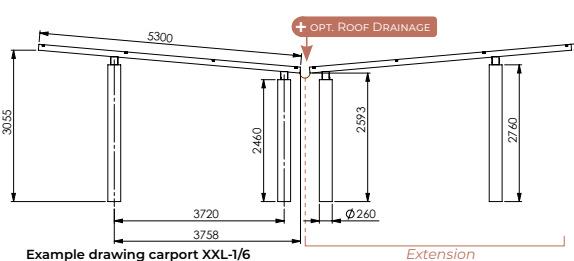
5,1 m
(Depth: 6,1m)

6,1 m
(Depth: 6,1m)

7,1 m
(Depth: 6,1m)

Base (B72)	(H1342) incl. 9 x B72 & Fastening	(H1442) incl. 12 x B72 & Fastening	(H1542) incl. 15 x B72 & Fastening	(H1642) incl. 18 x B72 & Fastening	(H1742) incl. 21 x B72 & Fastening
Ext. (B72)	(H1392) incl. 9 x B72 & Fastening	(H1492) incl. 12 x B72 & Fastening	(H1592) incl. 15 x B72 & Fastening	(H1692) incl. 18 x B72 & Fastening	(H1792) incl. 21 x B72 & Fastening
opt. tin*			(ZH002)	(ZH004)	(ZH006)

Variant 2: Carport



Example drawing carport XXL-1/6

* optional sheet metal cladding, which includes the cost of connecting two carports, as well as roof drainage.

V2 L-1/6
(3,3kW)

V2 XL-1/6
(4,4kW)

V2 XXL-1/6
(5,6kW)

V2 3XL-1/6
(6,7kW)

V2 4XL-1/6
(7,8kW)

Available with the following **entry widths** approx:

3,1 m
(Depth: 5,4m)

4,1 m
(Depth: 5,4m)

5,1 m
(Depth: 5,4m)

6,1 m
(Depth: 5,4m)

7,1 m
(Depth: 5,4m)

Base (B60/6)	(H1333) incl. 9 x B60/6 & Fastening	(H1433) incl. 12 x B60/6 & Fastening	(H1533) incl. 15 x B60/6 & Fastening	(H1633) incl. 18 x B60/6 & Fastening	(H1733) incl. 21 x B60/6 & Fastening
Ext. (B60/6)	(H1393) incl. 9 x B60/6 & Fastening	(H1493) incl. 12 x B60/6 & Fastening	(H1593) incl. 15 x B60/6 & Fastening	(H1693) incl. 18 x B60/6 & Fastening	(H1793) incl. 21 x B60/6 & Fastening
opt. tin*			(ZH001)	(ZH003)	(ZH005)

V2 L-2/6
(4,1kW)

V2 XL-2/6
(5,4kW)

V2 XXL-2/6
(6,8kW)

V2 3XL-2/6
(8,1kW)

V2 4XL-2/6
(9,5kW)

Available with the following **entry widths** approx:

3,1 m
(Depth: 6,4m)

4,1 m
(Depth: 6,4m)

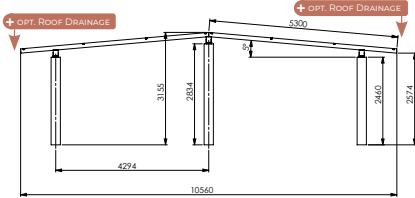
5,1 m
(Depth: 6,4m)

6,1 m
(Depth: 6,4m)

7,1 m
(Depth: 6,4m)

Base (B72/6)	(H1314) incl. 9 x B72/6 & Fastening	(H1414) incl. 12 x B72/6 & Fastening	(H1514) incl. 15 x B72/6 & Fastening	(H1614) incl. 18 x B72/6 & Fastening	(H1714) incl. 21 x B72/6 & Fastening
Ext. (B72/6)	(H1394) incl. 9 x B72/6 & Fastening	(H1494) incl. 12 x B72/6 & Fastening	(H1594) incl. 15 x B72/6 & Fastening	(H1694) incl. 18 x B72/6 & Fastening	(H1794) incl. 21 x B72/6 & Fastening
opt. tin*			(ZH002)	(ZH004)	(ZH006)

Variant 3: Saddle roof double carport



Available with the following **entry widths** approx:

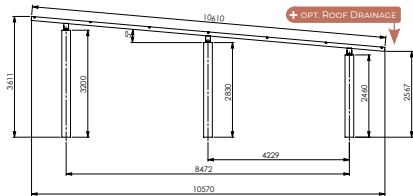
	V3 L-1/6 (6,7kW)	V3 XL-1/6 (8,9kW)	V3 XXL-1/6 (11,1kW)	V3 3XL-1/6 (13,3kW)	V3 4XL-1/6 (15,5kW)
	3,1 m (Depth: 10m)	4,1 m (Depth: 10m)	5,1 m (Depth: 10m)	6,1 m (Depth: 10m)	7,1 m (Depth: 10m)
Base (B60/6)	(H5313) incl. 18 x B60/6 & Fastening	(H5413) incl. 24 x B60/6 & Fastening	(H5513) incl. 30 x B60/6 & Fastening	(H5613) incl. 36 x B60/6 & Fastening	(H5713) incl. 42 x B60/6 & Fastening
Ext. (B60/6)	(H5393) incl. 18 x B60/6 & Fastening	(H5493) incl. 24 x B60/6 & Fastening	(H5593) incl. 30 x B60/6 & Fastening	(H5693) incl. 36 x B60/6 & Fastening	(H5793) incl. 42 x B60/6 & Fastening

V3 L-2/6 (8,1kW)	V3 XL-2/6 (10,8kW)	V3 XXL-2/6 (13,5kW)	V3 3XL-2/6 (16,2kW)	V3 4XL-2/6 (18,9kW)
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Available with the following **entry widths** approx:

	3,1 m (Depth: 10,3m)	4,1 m (Depth: 10,3m)	5,1 m (Depth: 10,3m)	6,1 m (Depth: 10,3m)	7,1 m (Depth: 10,3m)
Base (B72/6)	(H5314) incl. 18 x B72/6 & Fastening	(H5414) incl. 24 x B72/6 & Fastening	(H5514) incl. 30 x B72/6 & Fastening	(H5614) incl. 36 x B72/6 & Fastening	(H5714) incl. 42 x B72/6 & Fastening
Ext. (B72/6)	(H5394) incl. 18 x B72/6 & Fastening	(H5494) incl. 24 x B72/6 & Fastening	(H5594) incl. 30 x B72/6 & Fastening	(H5694) incl. 36 x B72/6 & Fastening	(H5794) incl. 42 x B72/6 & Fastening

Variant 4: Pent roof double carport



Available with the following **entry widths** approx:

	V4 L-1/6 (6,7kW)	V4 XL-1/6 (8,9kW)	V4 XXL-1/6 (11,1kW)	V4 3XL-1/6 (13,3kW)	V4 4XL-1/6 (15,5kW)
	3,1 m (Depth: 10,6m)	4,1 m (Depth: 10,6m)	5,1 m (Depth: 10,6m)	6,1 m (Depth: 10,6m)	7,1 m (Depth: 10,6m)
Base (B60/6)	(H6313) incl. 18 x B60/6 & Fastening	(H6413) incl. 24 x B60/6 & Fastening	(H6513) incl. 30 x B60/6 & Fastening	(H6613) incl. 36 x B60/6 & Fastening	(H6713) incl. 42 x B60/6 & Fastening
Ext. (B60/6)	(H6393) incl. 18 x B60/6 & Fastening	(H6493) incl. 24 x B60/6 & Fastening	(H6593) incl. 30 x B60/6 & Fastening	(H6693) incl. 36 x B60/6 & Fastening	(H6793) incl. 42 x B60/6 & Fastening

V4 L-2/6 (8,1kW)	V4 XL-2/6 (10,8kW)	V4 XXL-2/6 (13,5kW)	V4 3XL-2/6 (16,2kW)	V4 4XL-2/6 (18,9kW)
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Available with the following **entry widths** approx:

	3,1 m (Depth: 12,6m)	4,1 m (Depth: 12,6m)	5,1 m (Depth: 12,6m)	6,1 m (Depth: 12,6m)	7,1 m (Depth: 12,6m)
Base (B72/6)	(H6314) incl. 18 x B72/6 & Fastening	(H6414) incl. 24 x B72/6 & Fastening	(H6514) incl. 30 x B72/6 & Fastening	(H6614) incl. 36 x B72/6 & Fastening	(H6714) incl. 42 x B72/6 & Fastening
Ext. (B72/6)	(H6394) incl. 18 x B72/6 & Fastening	(H6494) incl. 24 x B72/6 & Fastening	(H6594) incl. 30 x B72/6 & Fastening	(H6694) incl. 36 x B72/6 & Fastening	(H6794) incl. 42 x B72/6 & Fastening

Shade roof / Bikeport



	BP4-1 (2,6kW)	BP5-1 (3,2kW)	BP6-1 (3,8kW)
Wide	4,1 m (Depth: 3,4m)	5,1 m (Depth: 3,4m)	6,1 m (Depth: 3,4m)
Base (B60/6)	(H0511) incl. 8 x B60 & Fastening	(H0611) incl. 10 x B60 & Fastening	(H0711) incl. 12 x B60 & Fastening
Ext. (B60/6)	(H0591) incl. 8 x B60 & Fastening	(H0691) incl. 10 x B60 & Fastening	(H0791) incl. 12 x B60 & Fastening

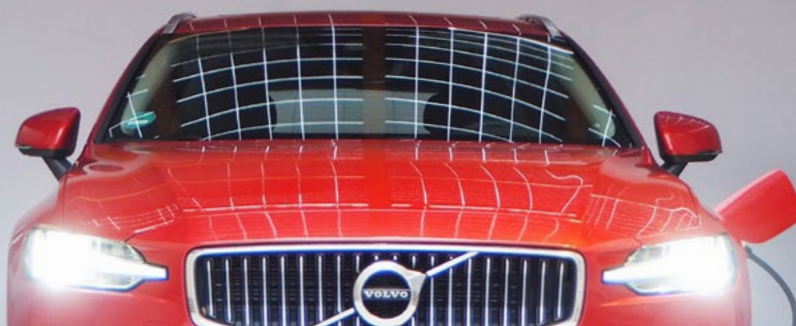
	BP4-4 (3,6kW)	BP5-4 (4,5kW)	BP6-4 (5,4kW)
Wide	4,1 m (Tiefe: 4,2m)	5,1 m (Tiefe: 4,2m)	6,1 m (Tiefe: 4,2m)
Base (B60/6)	(H0514) incl. 8 x B72/6 & Fastening	(H0614) incl. 10 x B72/6 & Fastening	(H0714) incl. 12 x B72/6 & Fastening
Ext. (B60/6)	(H0594) incl. 8 x B72/6 & Fastening	(H0694) incl. 10 x B72/6 & Fastening	(H0794) incl. 12 x B72/6 & Fastening

H SERIES

GLUED LAMINATED TIMBER (GLUED LAMINATED BEAMS)
ON GALVANIZED COLUMNS MADE OF SPECIAL STEEL

20★
YEARS
WARRANTY

★ ★ ★
PATENT
PENDING
★ ★ ★



Wood is a renewable resource and is therefore ideally suited for connection with double-glazed PV modules. The high-quality glulam (glulam), which we use for the upper structure of the carport systems, is characterized by its high stability and load-bearing capacity, so that the modules can be safely installed on the structure.



Wood is primed at the factory and painted with the desired color. It should be repainted during assembly (paint included).

Art.Nr.: FH

11
white

12
transp.

13
pine

15
beech

17
teak



Kit with marked positions. Quick and easy assembly. Multiple wood protection.

A SERIES

ANODIZED ALUMINUM
ON GALVANIZED SPECIAL STEEL COLUMNS

20★
YEARS
WARRANTY



Intelligent connecting parts allow the profiles to be inserted into each other and screwed tightly together. The optionally available dark anthracite color of the profiles gives the carport a modern look and optimally complements architectural structures.



Selection of the special profiles used

					
	A	B	C	D	E
Dimensions [mm]	40x40	80x80	80x120	80x160	80x200
Art.no.	A0304	A0308	A0312	A0316	A0320

DESIGN FOR ANY TERRAIN

PLANNING SERVICE INCLUDED.

Basic structural analysis included.
Individual structural documentation for
an additional charge.



ATTRACTIVE SOLUTIONS FOR ANY PARKING SPACE



PARKING FACILITIES

FOR COMMUTERS AND E-CHARGING AREAS



Due to the PV obligation in many states, parking lots with PV systems must be covered. It is therefore no longer sufficient to simply asphalt brownfield sites and divide them into parking bays. In addition, the requirements of electromobility mean that more planning work has to be done, e.g. because power lines have to be laid.

Considering the use of a commuter parking lot then it is obvious to integrate there small supply units such as a kiosk with a range of drinks and newspapers, so that waiting times for visitors can be bridged more comfortably.

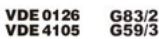
There could also be a variable use of the valuable covered traffic areas, e.g. by allowing fewer vehicles on weekends and holding different markets on the open spaces (e.g. also a (children's) flea market on Sundays). Even pop-up sports areas, e.g. for yoga or badminton, are conceivable - there are no limits to the wealth of ideas.



INVERTER

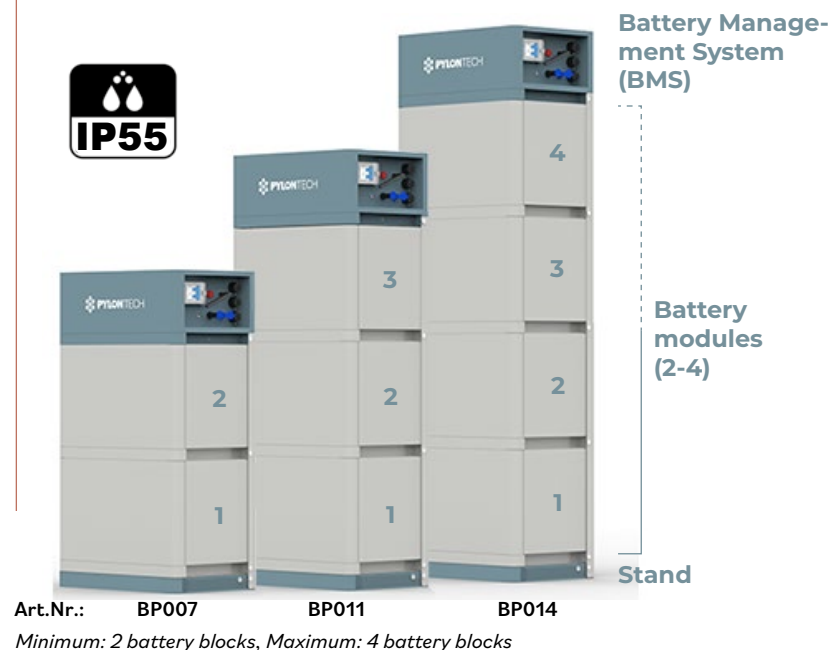
Product parameters	Single-phase 4 kW	Three-phase 5 6 kW	Three-phase 8 10 kW	Three-phase 15 kW	Three-phase 20 kW	Three-phase 40 50 60 kW
Certificates:  VDE 0126 VDE 4105  G83/2 G59/3  CLEAN ENERGY COUNCIL MEMBER  CCC  TUV  UL1547 UL1741						
Art.no.	WA104	WA305 WA306	WA308 WA310	WA315	WA320	WA340 WA350 WA360
Nominal AC power (kW)	4	5 6	8 10	15	20	40 50 60
Max. DC power (kW)	6	7.5 9	12 15	22.5	30	60 75 90
Max DC voltage (V)	600	1.100				
Max. Input current (A)	14 x 2	15 x 2		20+32	32 x 2	38 x 3 40 x 3 38 x 4
Number of MPP trackers/ number of PV strings	2/2	2/2		2/3	2/4	3/6 3/7 4/8
Input connector type	MC4					
Max. Output power (kW)	4.4	5.5 6.6	8.8 11	16.5	22	44 55 66
Power factor	-0.95 ~ +0.95					
Max. Efficiency	98.2 %	98.3 %		98.7 %	98.75 %	98.65% 98.8% 99%
Ambient Temperature Range	-25°C ~ +60°C					
Dimensions (H x W x D, mm)	370 x 350 x 142	510 x 370 x 167	510 x 370 x 192	510 x 370 x 192	535 x 370 x 192	712 x 427 x 232
Weight (kg)	11	15	16	17	19	43 45 51
Protection class	IP65					
Communication interface	RS485 / WiFi / Wire Ethernet / GPRS (optional)					
Safety standards	IEC 60068, UL1741, EN62109					

Hybrid Inverter, Three Phase & Black Start Capable ► compatible with Pylontech batteries see p. 18		3 kW	6 kW	10 kW	20 kW
 Energy Smart Meter 	Art.no.	WAH03	WAH06	WAH10	WAH20
	Nominal AC output power (kW)	3	6	10	20
	Max. DC power (kW)	5	9	15	30
	Rated DC input voltage (V)	620			
	Max. Input current (A)	20 x 2			32 x 2
	MPP tracker quantity	2			
	Nominal battery voltage (V)	200	250	400	700
	Battery voltage range (V)	150 - 800			
	Max. Charge/discharge current (A)	30			
	Compatible battery type	Li-ion / Lead-acid			
	Max. AC input power	4.500	9.000	15.000	30.000
	Peak output power (AC load output)	3300VA, 60s	6600VA, 60s	11000VA, 60s	22000VA, 60s
	Dimensions (H x W x D, mm)	558 x 426 x 250			
	Weight (kg)	28.5			
Display & communication interfaces		LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G			
Certifications & Approvals		NRS97, G98/G99, EN50549-1, C10/C11, AS 4777, VDE-AR-N4105, VDE0126, IEC62040, IEC62109-1, IEC62109-2			
Housing protection level		IP65 / NEMA4X	IP65 / NEMA7X	IP65 / NEMA9X	IP65 / NEMA13X

Certificates:      

BATTERY PACKAGES

PYLONTECH BATTERY SETS



The central battery management system protects each battery module from unfavorable conditions and thus ensures safe and failure-free continuous operation of the battery storage system. It does not matter how many storage modules are in use, only one is needed per tower. Pylontech's communication protocol, proven over many years, is directly supported by a wide range of inverters. The BMS provides protection against deep discharge, overvoltage, overload, over- and undertemperature, short-circuit and ensures a balanced use of all modules and cells.

In combination with a compatible hybrid inverter (see p. 13), a self-sufficient stand-alone system with black start or emergency power capability is created.



Pylontech Force-H2			
Battery module quantity	2	3	4
Art. no.	BP007	BP011	BP014
Cells technology	Li-iron (LFP)		
Battery system capacity (kWh)	7,10	10,65	14,20
Battery system voltage (Vdc)	192	288	384
Battery system capacity (Ah)	37		
Battery module capacity (kWh)	3.552		
Battery Module voltage (Vdc)	96		
Battery module capacity (AH)	37		
Upper battery system charging voltage (Vdc)	174	261	348
Battery system charging current (Amps) Standard / Normal / Max. at 15s	7,4 / 18,5 / 40		
Battery system discharge lower voltage (Vdc)	216	324	432
Battery System Discharge Current (Amps) Standard / Normal / Max. at 15s	7,4 / 18,5 / 40		
Short circuit power (amps)	<4000		
Efficiency (%)	96		
Depth of discharge (%)	90		
Communication interface	CANBUS/Modbus RTU		
Protection class	IP55		
Operating life (years)	15+		
Operating temperature/ Storage temperature °C	0~50 / -20~60		
Overall system dimensions (L x B x H, mm)	450 x 296 x 822	450 x 296 x 1118	450 x 296 x 1414
Weight (kg)	82	117	152
Dimensions Battery Management System (L x W x H, mm)	450 x 296 x 190		
Dimensions battery module (L x W x H, mm)	450 x 296 x 296		
Dimensions battery stand, screwed to BMS (L x W x H, mm)	450 x 296 x 40		
Product certificates	VDE2510-50, IEC62619, IEC62477-1, IEC62040-1, CEC, CE		



Learn more about GridParity's extensive product range and take a look at other product catalogs at www.gridparityag.com/download



Product overview



AgriPV

GridParity products are all about sustainability: we give a recycling guarantee („cradle to cradle“) on all kits, GridParity has been awarded the ISO14001:2015 environmental certificate, we make sure that our logistics partnership the goods in a climate-neutral way, and what's more, as our customer you can actively contribute to climate protection with a joint reforestation project!



GridParity AG - next generation photovoltaic

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