

Datasheet PV Inverter Shelters

PV Inverter Shelters

The shelters provide protection for all types of commercial inverters and are a perfect overall solution for your cable management in combination with our other products from ValkCableCare. The PV Inverter Shelter is available in five different configurations: Single, Double, Wall, Mini and Slim (separate datasheet). For inverters that require additional space at the rear, we now have the Double-spaced shelter available. See page 5 for further information.

Art. nr.	Description	L [mm]	W [mm]	H [mm]	Weight per piece [kg]	Max. support weight [kg]
760601	PV Inverter Shelter Single	750	1500	1500	36	400
760602	PV Inverter Shelter Double	1500	1500	1500	62	480
760603	PV Inverter Shelter Wall	500	1500	1500	33	400
760604	PV Inverter Shelter Mini	1200	800	1200	32	400

Technical specifications

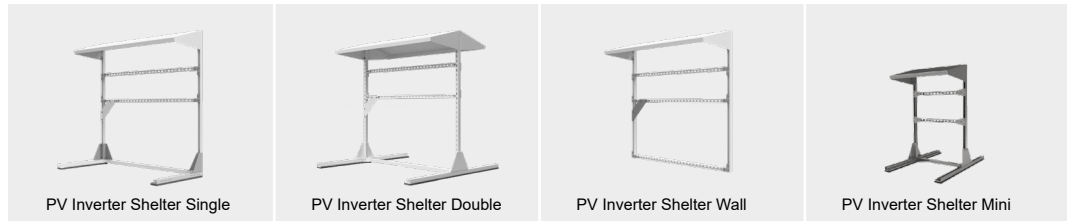
- Durable and solid: steel construction with a roof made of high-quality zinc magnesium.
- Minimal number of components: easy installation in less than 7 minutes.
- Precise ballast calculation PV Inverter Shelter Double & Mini: customized to the location, building height and roof zone for optimal ballast quantity.
- Mechanical fixation possible for a ballast free installation.
- Different versions available: free-standing or wall-mounted.
- Easy expansion: connectors, protective roof supports and multiple mounting brackets available.
- Increased fire safety: inverters can be placed outdoors for additional safety.
- Space-saving: compact packing method, up to 4 PV Inverter Shelters on a pallet.
- Compatibility: the shelters offer protection for all types of inverter cabinets and provide a total cable management solution in combination with ValkCableCare.
- Optimized inspection capabilities.

Applicability and supplies

PV Inverter Shelter Single (760601)

Single-sided PV Inverter Shelter to be mounted on the wall using wall anchors while also being supported on the ground. Because this shelter also makes contact with the ground, the weight on the wall is considerably lower. The method of fixing strongly depends on the type of wall to which the shelter will be fixed. Consult the building's structural engineer for attachment to the relevant wall.

Consists of (760601) GTIN: 08719632527855	
Quantity	Description
1	Mounting material PV Inverter Shelter Single incl. feet
1	Base PV Inverter Shelter Single
1	H-frame PV Inverter Shelter Single
1	Roof PV Inverter Shelter



Datasheet **PV Inverter Shelters**

PV Inverter Shelter Double (760602)

The PV Inverter Shelter Double is a stand-alone shelter, which can be installed ballasted on the roof. In many cases, it is necessary to add counterweight supports. Consult Van der Valk Solar Systems for a correct and safe ballast calculation. The PV Inverter Shelter Double can also be mechanically anchored for a ballast free installation of the shelter. Contact Van der Valk Solar Systems for the appropriate products.

Consists of (760602) GTIN: 08719632527862	
Quantity	Description
1	Mounting material PV Inverter Shelter Double incl. feet
1	Base PV Inverter Shelter Double
1	H-frame PV Inverter Shelter Double
2	Roof PV Inverter Shelter

PV Inverter Shelter Wall (760603)

Single-sided PV Inverter Shelter, which should be wall-mounted using wall anchors. The method of fixing strongly depends on the type of wall to which the shelter will be fixed. Consult the building's structural engineer for attachment to the relevant wall.

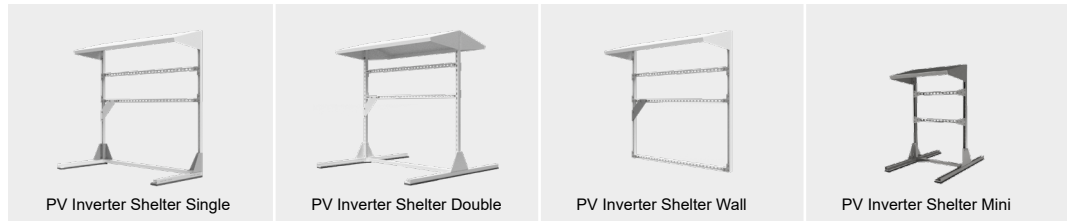
Consists of (760603) GTIN: 08719632527879	
Quantity	Description
1	Mounting material PV Inverter Shelter Wall
1	H-frame PV Inverter Shelter Wall
1	Roof PV Inverter Shelter

PV Inverter Shelter Mini (760604)

The PV Inverter Shelter Mini is a stand-alone shelter, which can be installed ballasted on the roof. In many cases, it is necessary to add counterweight supports. Consult Van der Valk Solar Systems for a correct and safe ballast calculation. The PV Inverter Shelter Mini can also be mechanically anchored for a ballast free installation of the shelter. Contact Van der Valk Solar Systems for the appropriate products.

Consists of (760604) GTIN: 08719632529859	
Quantity	Description
1	Mounting material PV Inverter Shelter Mini
1	Base PV Inverter Shelter Mini
1	H-frame PV Inverter Shelter Mini
1	Roof PV Inverter Shelter Mini













* Attention: Wall anchors are not included.
 * Additional support mats are required when using ValkSolarFix in combination with the PV Inverter Shelter Double and Mini.
 * Follow the inverter installation guidelines when selecting the appropriate shelter for the inverter.

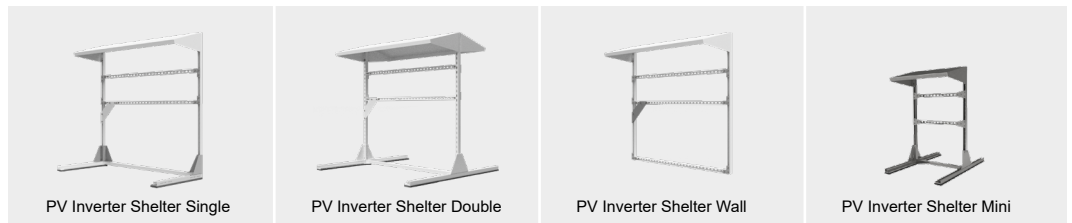


Datasheet PV Inverter Shelters

Service products

Optionally, there are various service products available to expand the PV Inverter Shelter according to preference.

Material number	760609	760610	760611	
Description	Roof protection Inverter Shelter Single	Roof protection Inverter Shelter Double	Counterweight support Inverter Shelter	
GTIN code	08719632527886	08719632527893	08719632527909	
Image				
Weight	0,076 Kg per pc	0,152 Kg per pc	2,459 Kg per pc	
No. of pcs per pkg.	2	2	2	
Material number	760616	760612	760613	
Description	Counterweight support PV Inverter Shelter Mini	Pitched roof adjustment piece PV Inverter Shelter	Mounting set for cable baskets PV Inverter Shelter	
GTIN code	08719632529217	08719632527916	08719632527923	
Image				
Weight	1,128 Kg per piece	3,273 Kg per piece	1,651 Kg per piece	
No. of pcs per pkg.	2	2	2	
Material number	760614	760631	760632	760615
Description	Connecting plates PV Inverter Shelter	Extra profile PV Inverter Shelter Single/Wall	Extra profile PV Inverter Shelter Double	Earthing rail
GTIN code	08719632527930	08719632528470	08719632528487	08719632528265
Image				
Weight	0,560 Kg per piece	2,650 Kg per piece	3,000 Kg per piece	0,550 Kg per piece
No. of pieces per pkg.	2	1	1	1
Material number	760617		760618	
Description	Spacer L=500 mm Inverter Shelter Single		Reinforcement piece Inverter Shelter	
GTIN code	08719632529910		08719632529927	
Image				
Weight	1,75 Kg per piece		2,56 Kg per piece	
No. of pcs per pkg.	2		2	



PV Inverter Shelter Single

PV Inverter Shelter Double

PV Inverter Shelter Wall

PV Inverter Shelter Mini

Datasheet **PV Inverter Shelters**

Service products

Roof protection PV Inverter Shelter Single

Protective mat (PP) for preventing softeners from escaping from the PVC roof covering.

Roof protection PV Inverter Shelter Double

Protective mat (PP) for preventing softeners from escaping from the PVC roof covering.

Counterweight support PV Inverter Shelter

Support for ballast tiles.

Max. support weight [Kg]	
Double	100 Kg
Mini	130 Kg

Pitched roof adjustment piece PV Inverter Shelter

To tilt the PV Inverter Shelter on a (slightly) pitched roof, up to 5° in relation to the feet.

Mounting set for wire baskets PV Inverter Shelter

For fastening our cable basket to the PV Inverter Shelter.

Connecting plates PV Inverter Shelter

For connecting several PV Inverter Shelters to each other.

Extra profile PV Inverter Shelter Single/Wall and Double

A single profile for mounting multiple (smaller) inverters at different elevations. To be fixed with two connecting plates (sold separately).

Max. support weight [Kg]	
Single/Wall	200 Kg
Double	240 Kg

Earthing rail

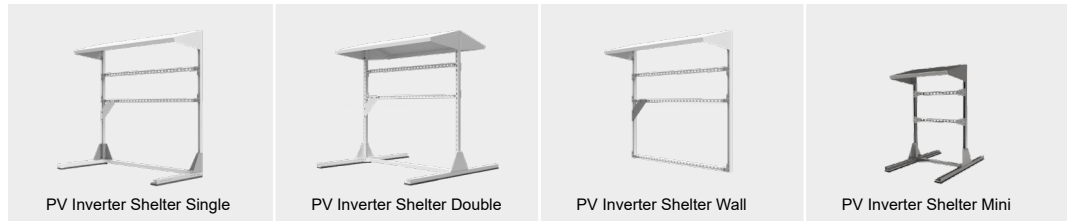
Provide shelters with a central potential equalization rail for a clear and safe potential equalization of all conductive parts. Fitted with 8 earthing points.

Spacer L=500 mm PV Inverter Shelter Single

Profiles for mounting two PV Inverter Shelters Single back-to-back with an additional gap, in accordance with the product guidelines for inverters.

Reinforcement piece PV Inverter Shelter

Add extra reinforcement to the H-frame when mounting several heavier inverters on an PV Inverter Shelter.



Datasheet **PV Inverter Shelter**

PV Inverter Shelter Double Spaced

The PV Inverter Shelters provide protection for all types of commercial inverters and, when combined with our other ValkCableCare products, offer an all-in-one solution for your cable management. The PV Inverter Shelter Double (Spaced) is an extended version of our PV Inverter Shelter Double.



Art. nr.	Description	L [mm]	W [mm]	H [mm]	Weight per piece [kg]	Max. support weight [kg]
PV Inverter Shelter Double (Spaced)	2000	1590	1500	95	400	400

Technical specifications

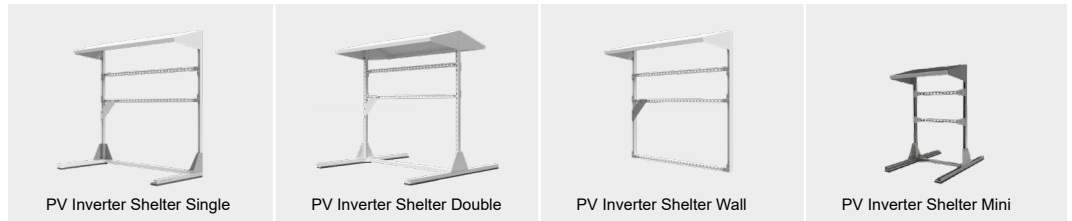
- Enables back-to-back mounting for inverters with stricter ventilation requirements that need extra space at the rear.
- Durable and robust: steel structure with a roof made from high-quality zinc-magnesium.
- Quick and easy installation thanks to prefabricated components.
- Precise ballast calculation tailored to location, building height and roof zone.
- Mechanical fastening possible for a ballast-free installation.
- Can be expanded with various service products such as connectors, protective roof supports and mounting brackets.
- Enhanced fire safety: inverters can be installed outdoors for added safety.
- Optimised inspection options.

Article overview

The shelter is made up of the following components:

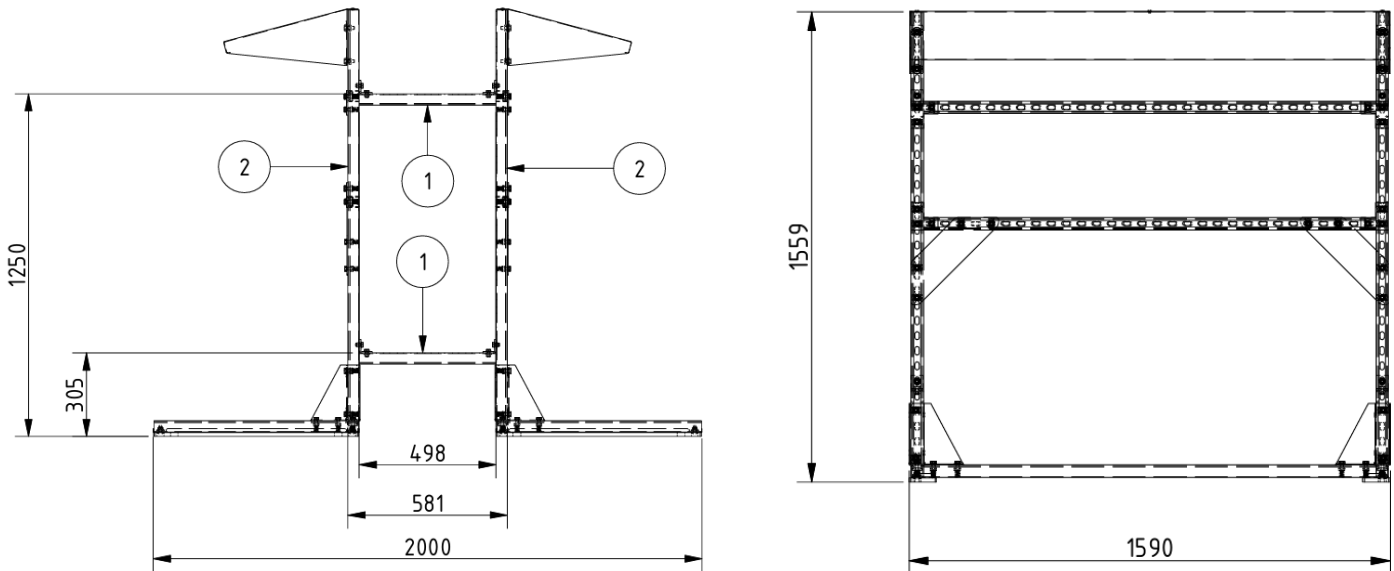
Quantity	Article number	Description	Image
2	760601	PV Inverter Shelter Single	
2 of 4 *	760617	Spacer L=500 mm Inverter Shelter Single	

*The number of supports depends on the foundation method, ballast placement, or mechanical anchoring. See chapter "Installing ballast".



Datasheet **PV Inverter Shelter**

Technical drawing



- 1 *Spacer L=500mm Inverter Shelter Single*
- 2 *PV Inverter Shelter Single*

Mounting inverters

The horizontal profiles of the shelter(s) can be adjusted in height depending on the desired mounting position of the inverter. Please take into account the required clearance at the top and bottom of the inverter. The shelter configuration provides a standard clearance of at least 581 mm. Depending on the dimensions of the inverter brackets supplied by the manufacturer, this distance may be increased. Always check the installation instructions for each inverter model to ensure the correct application of the shelter and inverter.

Placement of ballast

It may be necessary to install ballast on the system to ensure that the installation is resistant to wind loads. Please contact Van der Valk Solar Systems to request accurate and safe ballast calculations for your project.

When installing ballast, two sets (4 pieces) of supports (item 760617) must be used. Ballast tiles can be placed on supports for counterweight (item 760611). A maximum of 100 kg per set of supports is permitted.

For mechanical anchoring, 4 fixing points are required for correct attachment. When fixing the shelters, one set (2 pieces) of supports (item 760617) must be used.