SOLARSK

Product Catalog

on mounting systems for PV farms

Content

About the company

Solar Steelconstruction – is:

4000+ More than 4 000 MW of installed SPP

2000+ Own integrated manufacturing process with capacity of 2 GW a year

500+ MWp installation as EPC

We export to more than 30 countries of the world:

Solar Steelconstruction LLC
was founded in 2012 and based in Ukraine. Today we are the largest manufacturer of the mounting systems for PV sector in Ukraine and Eastern Europe.

ISO 9001
ISO 14001
ISO 45001
SA8000
EN 1090 FPC certified
All steel structures are CE-marked

Mounting systems for PV farms

On-roof mounting systems for PV farms

On-ground mounting systems for PV farms

The equipment includes more than 400 profile sizes:

- 4 lines to cut the rolled steel with width 0,3-2 mm and 2-6 mm
- Warehouses in different regions of Ukraine and Europe
- Over 160 units of equipment to process metal, including stamping, cutting, welding
- 9 profile rolling lines to manufacture over 400 standard sizes of the most common types of profiles
- Hot dip galvanizing bath
- Plasma & Laser cutting centers; CNC Drilling & Grinding centers
- All premises are equipped with overhead cranes and crane beams with a load capacity 5-20 tons

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On-roof mounting system for the pitched roofs SRS-S

The mounting system is designed for installing solar PV modules on a pitched roof.

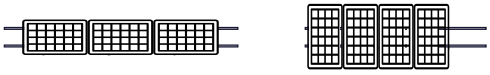
Fast installation at an optimal price thanks to simple connection without the need for additional components. A reliable system with resistance to loads.

Zinc coating is the key to the durability of the PV farm.

Characteristics:

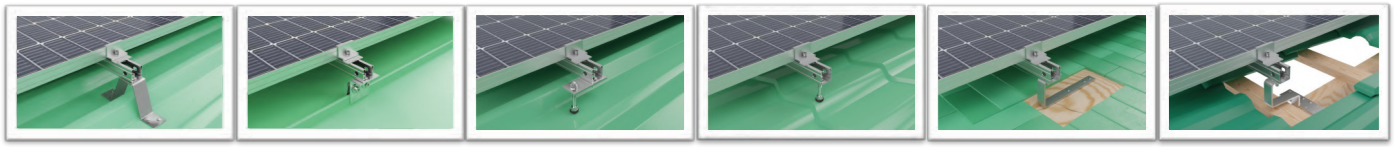
Angle of inclination of the PVM	15° – 60°
Angle of inclination of the roof	up to 60°
Type of attachment to the roof	Anchored

Possible PV modules orientation:



Landscape Portrait

Fasteners of the PVM that depend on the roof covering:



Trapezoidal sheeting | Standing seam tile | Trapezoidal sheeting | Metal tile | Bituminous tile | Ceramic tile

The main connection nodes:

The main node | Screw | End fastening | Mid fastening | Rail with connection element

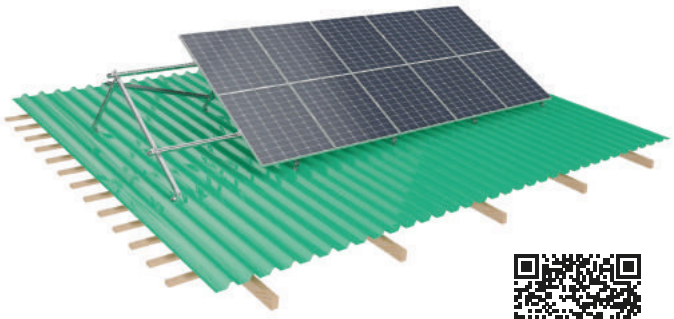
Constituent elements:

On-roof mounting system for the flat roof SRS-F

This on-roof mounting system is designed for the installation of PV modules on the flat roofs with the punch holes and damage the roof covering.

Fast installation at an optimal price thanks to simple connection without the need for additional components. A reliable system with resistance to loads.

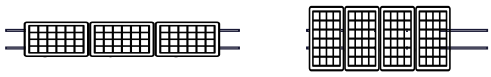
Zinc coating is the key to the durability of the PV farm.



Characteristics:

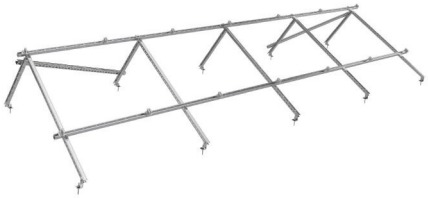
Angle of inclination of the PVM	up to 45°
Angle of inclination of the roof	up to 10°
Type of attachment to the roof	Anchored

Possible PV modules orientation:



Landscape Portrait

The constituent elements from the angle of inclination required for generation:



The main connection nodes:

The main node | Screw | End fastening | Mid fastening | Rail with connection element

Constituent elements:

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On-roof mounting system for the flat roof SRS-B

under ballast

Ballast on-roof mounting system is a solution for roofs in which it is undesirable or impossible to punch holes or damage the coating. Frames with ballasts are a feature of the configuration.

Fast installation at an optimal price thanks to simple connection without the need for additional components. A reliable system with resistance to loads.

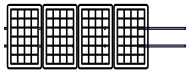
Zinc coating is the key to the durability of the PV farm.

Characteristics:

Angle of inclination of the PVM	up to 45°
Angle of inclination of the roof	up to 10°
Type of attachment to the roof	Under ballast

Possible PV modules orientation:

Landscape



Portrait

The constituent elements from the angle of inclination required for generation:

The main connection nodes:

End fastening

Mid fastening

Rail with connection element

Ballast nodes

Constituent elements:

On-roof mounting system for the flat roof SRS-EW-B

East-West

PV modules installation on the flat roof with East-West orientation allows to use the area most effectively as well as to distribute the electrical loads during the day.

Fast installation at an optimal price thanks to simple connection without the need for additional components. A reliable system with resistance to loads.

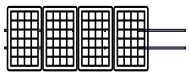
Zinc coating is the key to the durability of the PV farm.

Characteristics:

Angle of inclination of the PVM	up to 15°
Angle of inclination of the roof	up to 10°
Type of attachment to the roof	Anchored / Under ballast

Possible PV modules orientation:

Landscape



Portrait

The constituent elements from the angle of inclination required for generation:

The main connection nodes:

End fastening

Mid fastening

Rail with connection element

Ballast nodes

Constituent elements:

On-roof mounting system for the flat roof SRS-102 EW

East-West

PV modules installation on the flat roof with East-West orientation allows to use the area most effectively as well as to distribute the electrical loads during the day.

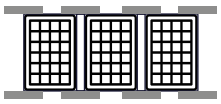
Less metal consumption and simpler logistics. No need for additional components.
A successful system with direct access to load.

Zinc coating is the key to the durability of the PV farm.

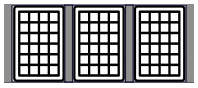
Characteristics:

Angle of inclination of the PVM	up to 20°
Angle of inclination of the roof	up to 10°
Type of attachment to the roof	Anchored / Under ballast

Fixation options:

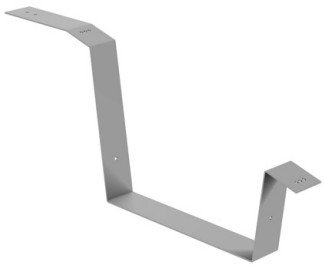


On the short side



On the long side

Brackets:



Constituent elements:

On-roof mounting system for the flat roof SRS-102

under ballast

The on-roof mounting systems is designed for the installation PV modules on the flat roof.

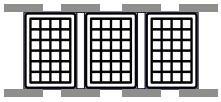
Less metal consumption and simpler logistics. No need for additional components. A successful system with direct access to load.

Zinc coating is the key to the durability of the PV farm.

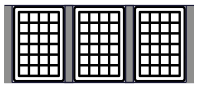
Characteristics:

Angle of inclination of the PVM	up to 20°
Angle of inclination of the roof	up to 10°
Type of attachment to the roof	Anchored / Under ballast

Fixation options:

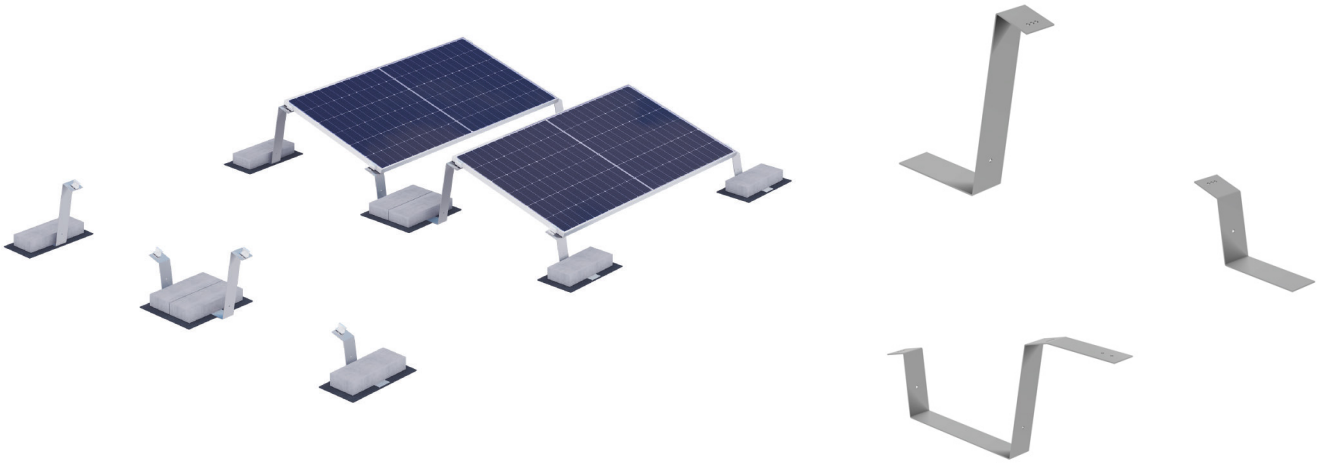


On the short side



On the long side

Brackets:



Constituent elements:

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On-ground mounting system SMS-212

Two-way ground train design for storage PV modules in two rows.

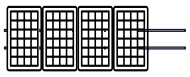
Fast installation at an optimal price thanks to simple connection without the need for additional components. A reliable system with resistance to loads.

Zinc coating is the key to the durability of the PV farm.

Characteristics:

Angle of inclination of the PVM	15°-45°
The number of piles rows	2
The number of PVM rows	2

Possible PV modules orientation:



Portrait

Foundation options:

Ramming

Ramming with concreting

Concreting

Installation on concrete blocks

Anchoring piles

Application features of profiles with different sections:

C
Steel C-profile

Z
Steel Z-profile

L
Steel special profile

R
Steel perforated rail-profile

On-ground mounting system SMS-212 SMART

The main feature of SMS-212 SMART is using of rails made of perforated profile 41x41. Lightweight and reliability are combined in a new mounting system.

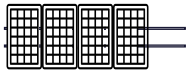
Fast installation at an optimal price thanks to simple connection without the need for additional components. A reliable system with resistance to loads.

Zinc coating is the key to the durability of the PV farm.

Characteristics:

Angle of inclination of the PVM	15°-45°
The number of piles rows	2
The number of PVM rows	2

Possible PV modules orientation:



Portrait

Foundation options:

Ramming

Ramming with concreting

Concreting

Installation on concrete blocks

Anchoring piles

The main connection nodes:

Fastening of main beams to piles

End fastening

Mid fastening

Rail with connection element

Options of cross-section of the perforated profile of guide beams:

41x41

41x72

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On-ground mounting system for bifacial PV modules SMS-212L

The main feature of the structure is absence of shading on the PV module back side. The height from the edge of PV module to the ground is 1.0-1.2 m, that is higher than for usual mounting systems.

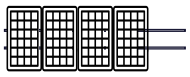
Fast installation at an optimal price thanks to simple connection without the need for additional components. A reliable system with resistance to loads.

Zinc coating is the key to the durability of the PV farm.

Characteristics:

Angle of inclination of the PVM	15°-45°
The number of piles rows	2
The number of PVM rows	2

Possible PV modules orientation:



Portrait

Foundation options:

Ramming

Ramming with concreting

Concreting

Installation on concrete blocks

Anchoring piles

Application features of profiles with different sections:

L
Steel
Special
Profile

On-ground mounting system SMS-212 EW

East-West

Two-row on-ground mounting system for the PV modules installation in two rows on East and West.

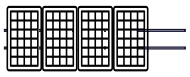
Fast installation at an optimal price thanks to simple connection without the need for additional components. A reliable system with resistance to loads.

Zinc coating is the key to the durability of the PV farm.

Characteristics:

Angle of inclination of the PVM	-
The number of piles rows	2/2
The number of PVM rows	2/2

Possible PV modules orientation:



Portrait

Foundation options:

Ramming

Ramming with concreting

Concreting

Installation on concrete blocks

Anchoring piles

Application features of profiles with different sections:

C
Steel C-profile

Z
Steel Z-profile

L
Steel special profile

R
Steel perforated rail-profile

On-ground mounting system SMS-211

Single-row on-ground mounting system for the PV modules installation.

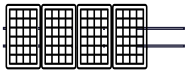
Fast installation at an optimal price thanks to simple connection without the need for additional components. A reliable system with resistance to loads.

Zinc coating is the key to the durability of the PV farm.

Characteristics:

Angle of inclination of the PVM	15°-45°
The number of piles rows	1
The number of PVM rows	2

Possible PV modules orientation:



Portrait

Faundation options:

Ramming

Ramming with concreting

Concreting

Application features of profiles with different sections:

C
Steel C-profile

Z
Steel Z-profile

R
Steel perforated rail-profile

On-ground mounting system with changeable tilt angle SMS-211C

On-ground mounting system for the PV modules installation with changeable tilt angle (mechanical trackers) towards the horizon depending on the time of year.

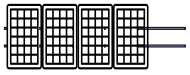
Fast installation at an optimal price thanks to simple connection without the need for additional components. A reliable system with resistance to loads.

Zinc coating is the key to the durability of the PV farm.

Characteristics:

Angle of inclination of the PVM	50°, 42°, 34°, 26°
The number of piles rows	1
The number of PVM rows	2

Possible PV modules orientation:



Portrait

Faundation options:

Ramming

Ramming with concreting

Concreting

Application features of profiles with different sections:

C
Steel C-profile

Z
Steel Z-profile

L
Steel special profile

R
Steel perforated rail-profile

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On-ground mounting system SMS-312

Three-row on-ground mounting system for the PV modules installation in three rows.

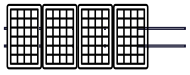
Fast installation at an optimal price thanks to simple connection without the need for additional components. A reliable system with resistance to loads.

Zinc coating is the key to the durability of the PV farm.

Characteristics:

Angle of inclination of the PVM	15°-30°
The number of piles rows	2
The number of PVM rows	3

Possible PV modules orientation:



Portrait

Faundation options:

Ramming

Ramming with concreting

Concreting

Installation on concrete blocks

Anchoring piles

Application features of profiles with different sections:

C
Steel
C-Profile

R
Steel
R- Profile

On-ground mounting system SMS-402

Four-row on-ground mounting system for the PV modules installation in three four rows.

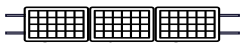
Fast installation at an optimal price thanks to simple connection without the need for additional components. A reliable system with resistance to loads.

Zinc coating is the key to the durability of the PV farm.

Characteristics:

Angle of inclination of the PVM	15°-30°
The number of piles rows	2
The number of PVM rows	4

Possible PV modules orientation:



Landscape

Faundation options:

Ramming

Ramming with concreting

Concreting

Installation on concrete blocks

Anchoring piles

Application features of profiles with different sections:

C
Steel C-profile

Z
Steel Z-profile

R
Steel perforated rail-profile

Contacts:

Iryna Dotsenko

Chief Commercial Officer

+38 067 736 74 27

i.dotsenko@solarsk.com.ua

Scandinavia:

Timo Sandell

Country manager

+358 500 56 36 86

timo@sandell.fi

The Balkans:

Hristijan Mircheski

Regional Manager

+38 971 289 619

h.mirceski@solarsk.com.ua

Serbia:

Dejan Rajic

Country Manager

+38 160 442 1639

d.rajic@solarsk.com.ua

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