

## PVMS (Photovoltaic Mounting Structure) System

A static ground-based structure for PVM installation

### PVMS-2RV-60-8

For PV Modules (250÷300 W)



#### FLEXIBLE ARCHITECTURE

The design adapts to the complex terrain.

#### ALL-PURPOSE MOUNTING SYSTEM

The assembled design can vary depending on the number of panels required.

#### 10-YEAR WARRANTY

Warranty from the through corrosion of metal structures.

# PVMS (Photovoltaic Mounting Structure) System

## One-support static structure

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### General Specifications

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- + Double-row arrangement of panels;
- + Vertical or horizontal orientation of modules;
- + Adaptation of the design to the complex terrain with the preservation of a given angle of attachment of modules;
- + High resistance to atmospheric loads (wind, snow);
- + Assembled design ensures a high installation speed;
- + Anti-corrosion coating on casing components;
- + The structure is made for the required number of panels. The basic configuration supports 8 PV panels.

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### Compliance:

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DBN A.3.2-2-2009 Occupational and Industrial Safety in Construction. Main Provisions.

DBN V.2.6-163:2010 Constructions of Buildings and Structures. Steel Structures. Standards of Design, Manufacturing, and Installation.

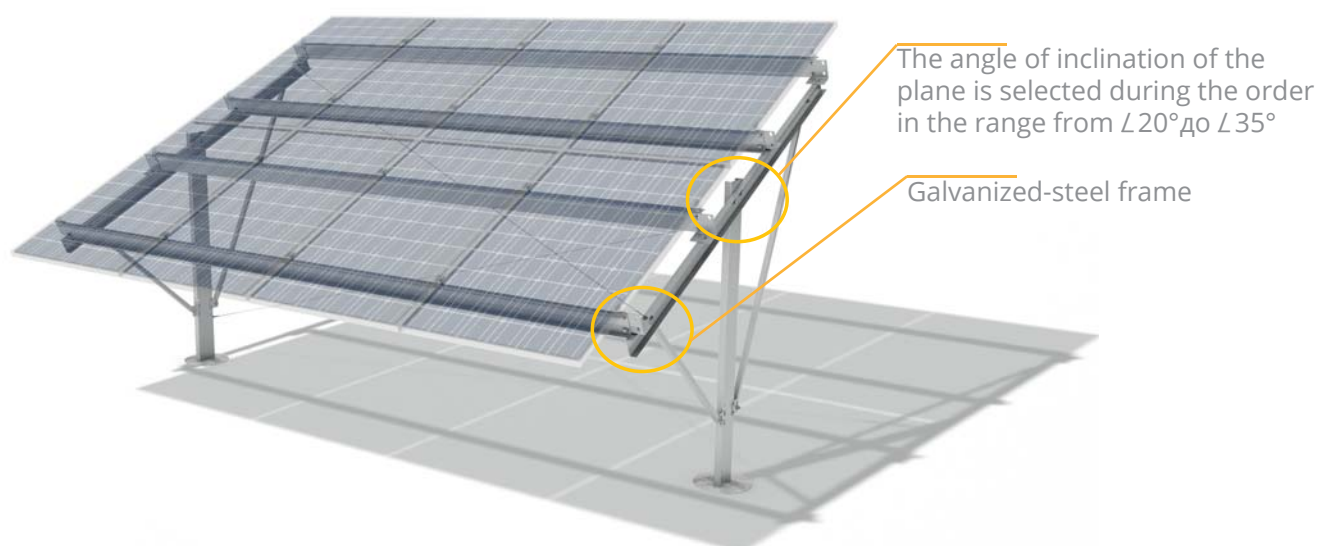
DBN G.1-4-95 Rules of Transportation, Stacking, and Storage of Materials, Products, Structures, and Equipment in Construction.

NPAOP 0.00-1.15-07 Rules of Occupational Safety during Work at Heights.

DSTU B V.2.6.-75:2008 Designs of Buildings and Structures. Construction Structural Steel. General Technical Requirements.

DSTU-N B V.2.6-186:2013 Guidelines for the Protection of Construction Designs of Buildings and Structures from Corrosion.

DSTU-N B A.3.1-21:2013 Installation Manual for Mounting Connections of Steel Structures Using High-Strength Bolts.



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## KNESS Product

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Single-support design for installation of PV modules with a capacity of 250-300 W

## TECHNICAL DATA

### Solar panel parameters

Dimensions	1650x992x40 mm
Weight of the panel	19 kg

### Structure parameters

Structure type	single-support
Number of rows	2
Arrangement of PV Panels	vertical
Base number of panels	8

### Operation Conditions

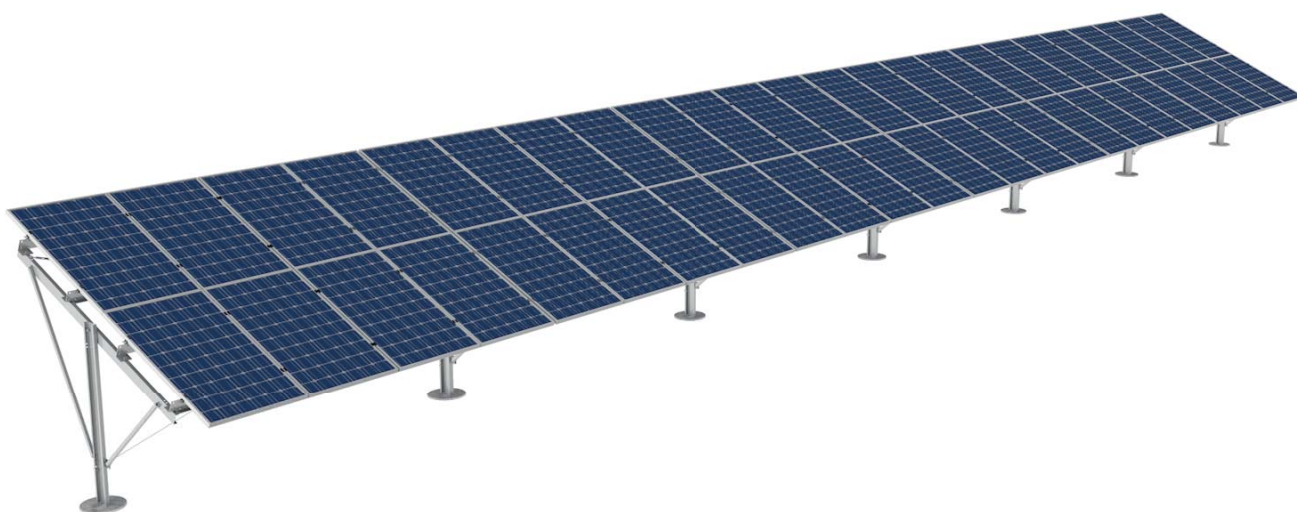
Temperature	-40...+45 °C
Relative humidity	5-100 %
Resistance to snow	600 Pa
Resistance to wind	500 Pa

### Installation specifications

Fastener type	piling with possible concrete casting
Table inclination angle	from $\angle 20^\circ$ to $\angle 35^\circ$
Tilt adjustment angle at the installation site	+/- 2
Pile driving power energy	830 kJ

The design solution allows for the adjustment of the fastening plane geometry in the difficult topography of the installation site.

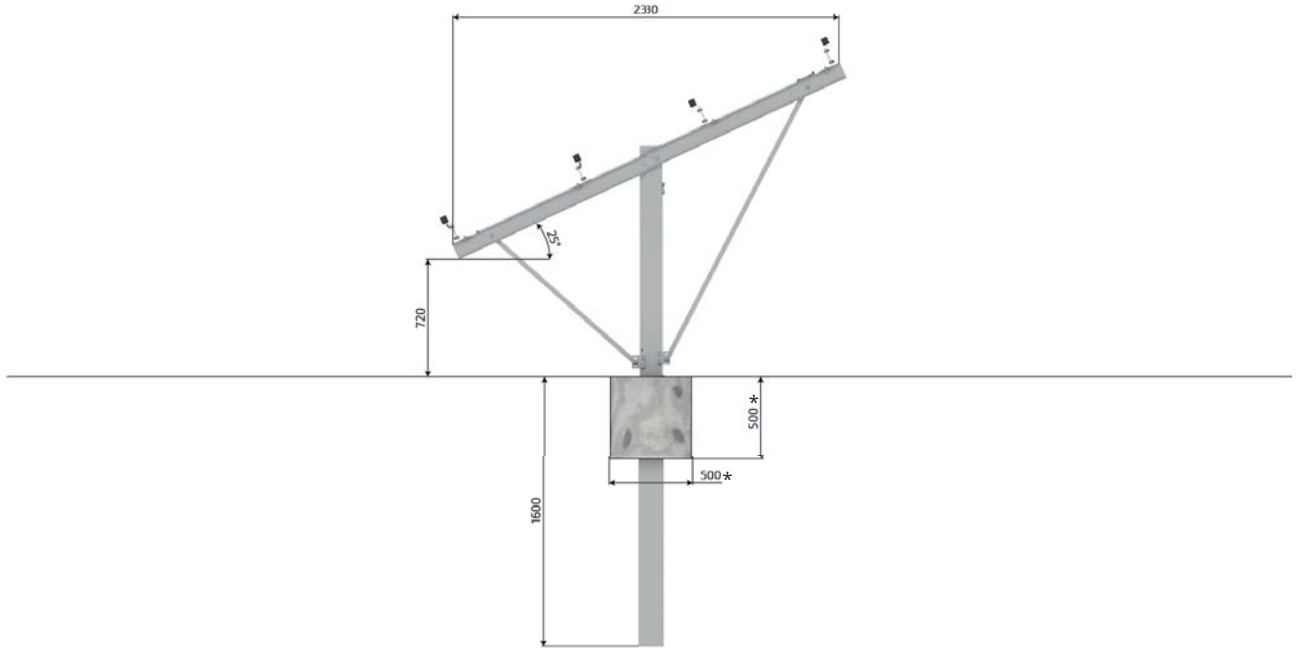
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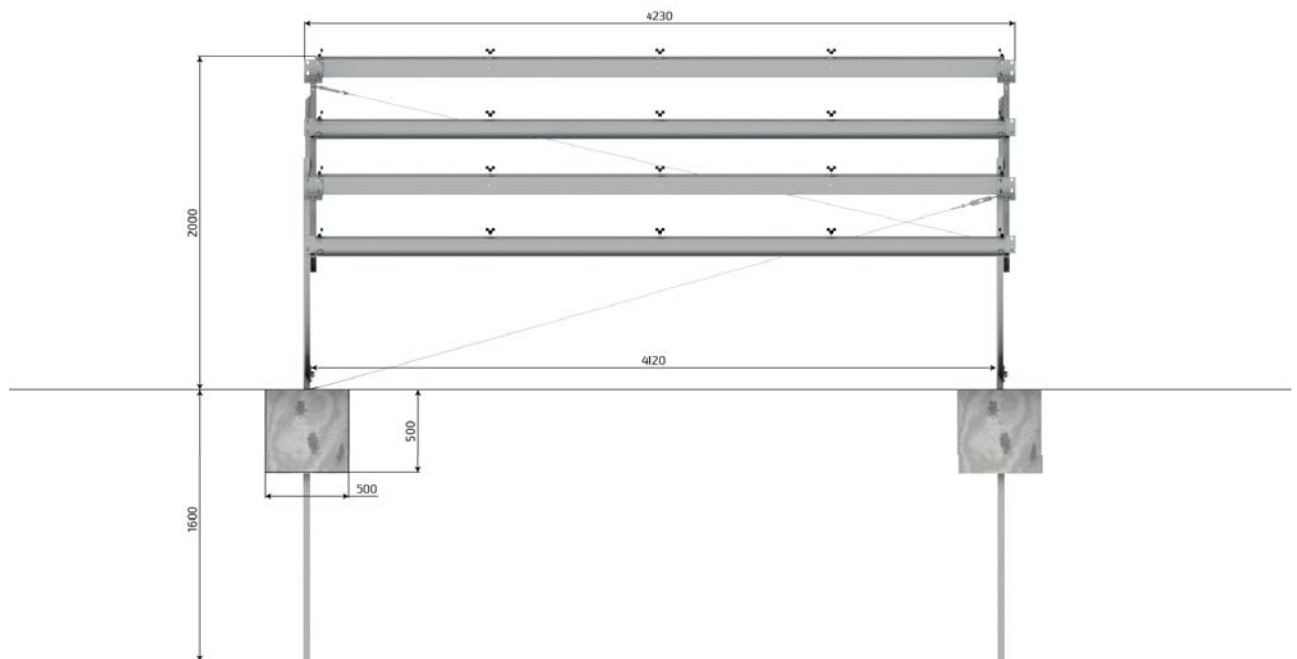
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\* One of the possible variants of concrete casting. The concreting volume is determined by the design.



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