KNESS
Product

PVMS (Photovoltaic Mounting Structure) System

A static ground-based structure for PVM installation

PVMS-2RV-72-8

For PV Modules (300÷350 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

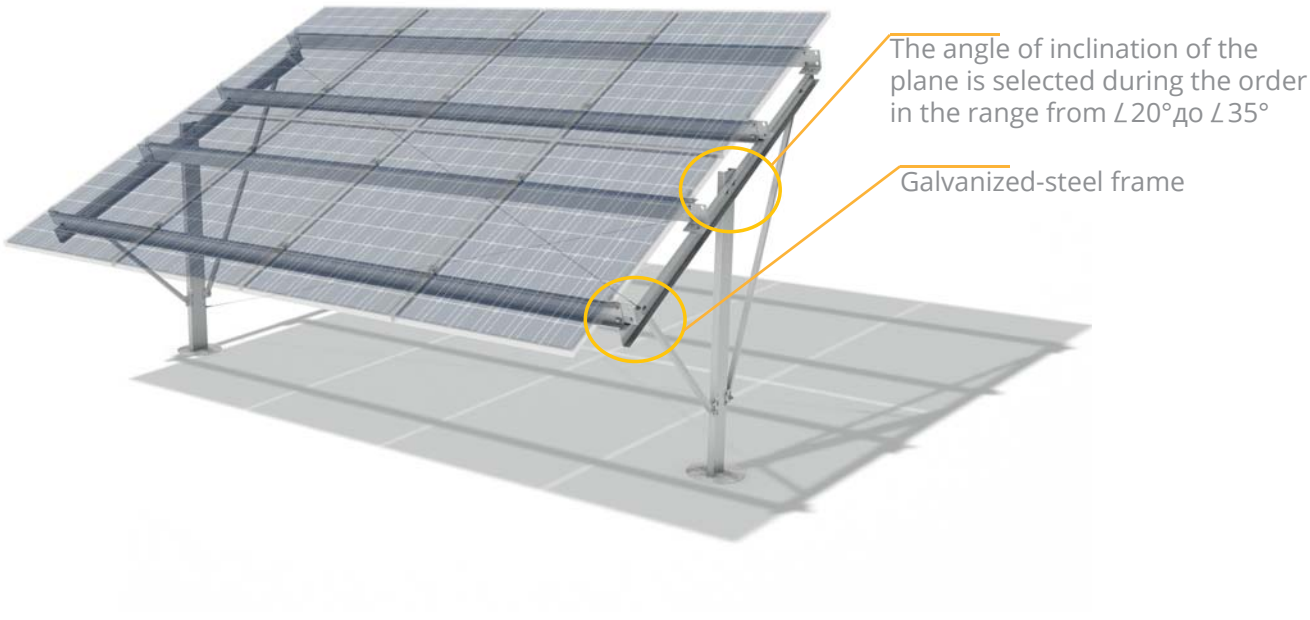
One-support static structure

General Specifications

+ 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.

Compliance:

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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PVMS-2RV-72-8

Single-support design for installation of PV modules with a capacity of 300–350 W

TECHNICAL DATA

Solar panel parameters

Dimensions	1976x990x35 mm
Weight of the panel	23 kg

Structure parameters

Structure type	single-support
Number of rows	2
Arrangement of PV Panels	vertical
Base number of panels	8
Structure weight	44 tonnes/MW

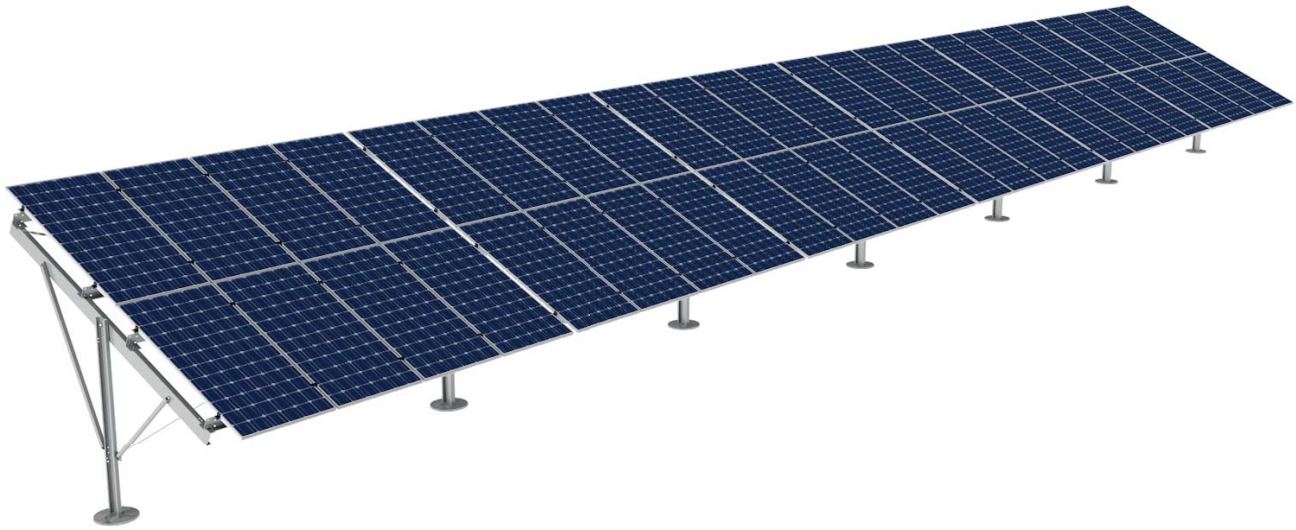
Operation Conditions

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 ∠20°to ∠35°
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 rugged topography of the installation site.
The structure is made for the required number of panels (the basic configuration supports 8 PV panels)



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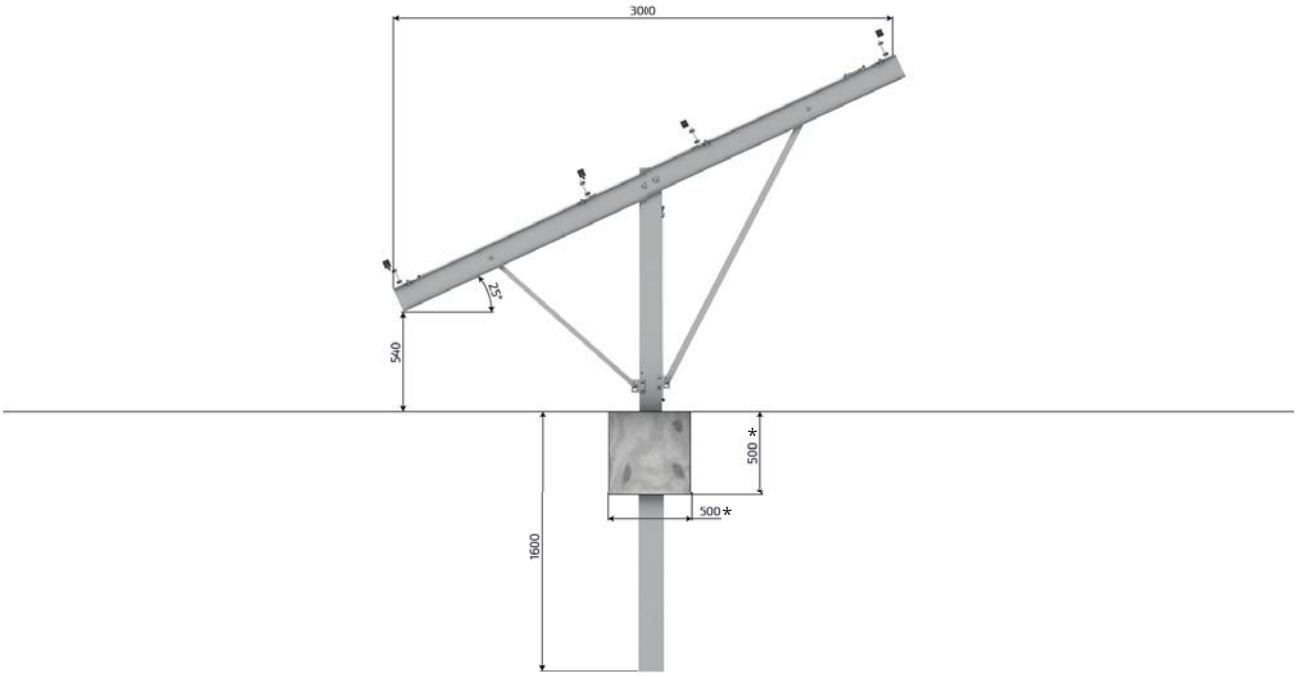
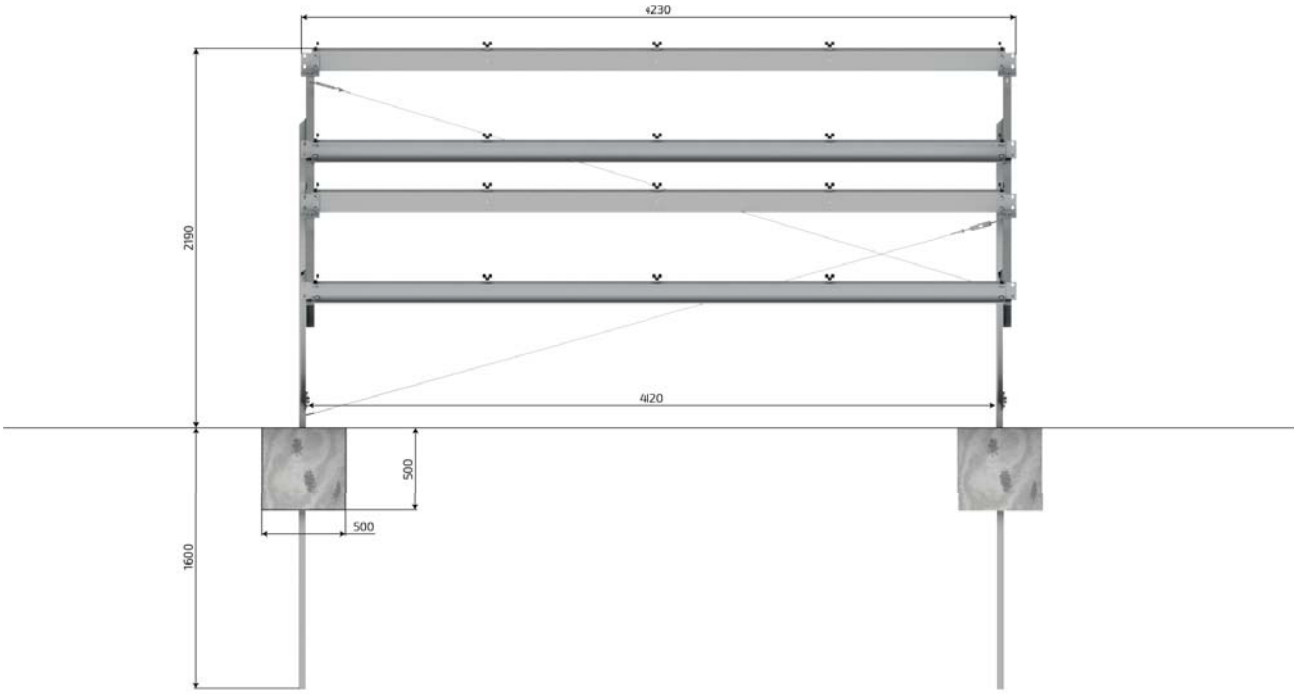


* One of the possible variants of concrete casting. The concreting volume is determined by the design.



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