

SmartSolarBox

The Power-Package



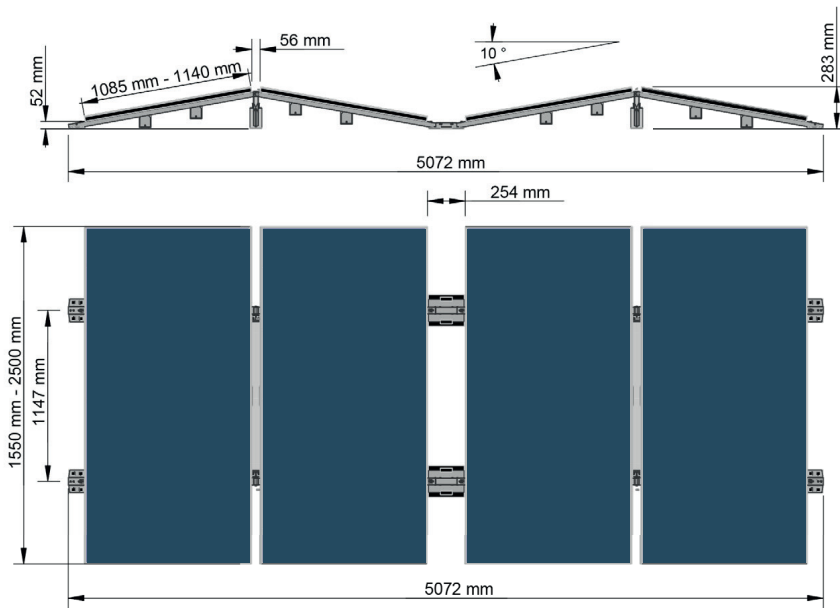
TECHNICAL DATASHEET SMARTSOLARBOX

VERSION 5.0

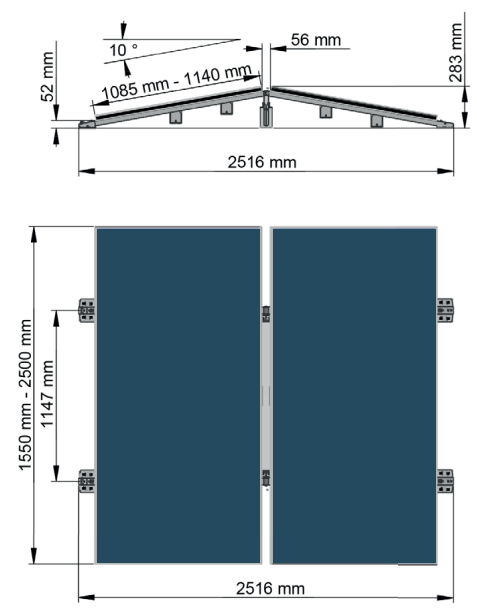
sunnet

SMART ENERGY PRODUCTS

SSB4:



SSB2:



TECHNICAL DATA

Scope of application	Flat roofs with a pitch of $\leq 5^\circ$ with foil or bitumen covering, on concrete, gravel or green roofs; also suitable for trapezoidal sheet metal roofs ¹⁾
Ballast ²⁾	Built-in concrete ballast elements -no roof penetration
Angle	10°
Orientation	East-West
Material of structure	Magnelis® ZM310 ³⁾
Roof contact	Building protection mat 8mm (PUR-bond rubber granules) ⁴⁾
DC-cable	integrated -connector: original MC4
Power optimizer/Module inverter	Optional power-optimizer or module inverter can be integrated into the SmartSolarBox system during production
Weight (excl. PV-Module)	226 kg / 150 kg / 74 kg (SSB4 in version CORNER / HEAVY / LIGHT)
Distributed load ⁵⁾	0.29kN/m ² (without snow in version CORNER)
Maximum point load ⁵⁾	19.5kN/m ² without and 67kN/m ² including snow load
Useable module size ⁶⁾	Width: 1085 -1140 mm ⁷⁾ / Length: 1550 -2500 mm / Frame thickness: 30 -40 mm
Approvals	Wind evaluation IFI. LoadtestsREECH



Ferdig terminert plugg fra tysk produsent 5 års produktgaranti.



NOTES

- 1 When used on trapezoidal roofs, additional support for the outer and central feet may be necessary.
- 2 The maximum ballast that can be integrated into the SmartSolarBox is 50kg per PV module ("CORNER" version). If this is not sufficient in the specific project, additional ballast stones of 25kg each can be installed in the solar generator after the SSBs have been placed.
- 3 In September 2019, the German Institute for Construction Technology (DIBt) granted ArcelorMittal's Magnelis® coating a general building approval (No. Z-30.11-51). The DIBt confirms the protection period of ZM310 when used in an environment of corrosivity class C4 with up to 30 years.
- 4 PUR Building protection mats contain plasticizers.
- 5 Distributed load and point load were calculated using the Jinko Tiger Pro 72HC PV module (1134x2278x35mm / 28kg). Assumption snow load $sk=0.85 \text{ kN/m}^2$
- 6 The maximum size of the PV module that can be used must be clarified on a project-specific basis and depends on the expected snow and wind loads at the place of use.
- 7 Because the solar modules are clamped from underneath, the module width that can be used depends on various parameters. If in doubt, the suitability of PV modules should be tested in advance or checked by SunNet according to the module manufacturer's data sheet.



Note: Due to continuous technical innovation, R&D and improvement, technical data above mentioned may be of modification accordingly. SunNet has the sole right to make such modification at anytime without further notice;