

POS PV PANEL 110 - Solar panel



1587085

<https://www.phoenixcontact.com/gb/products/1587085>

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Solar panel, PV panel for Pico off-grid system with built-in SUNCLIX connectors, nominal power: 110 W, cell technology: Monocrystalline PERC with >22% efficiency, number of cells: 42, module frame: Anodized hollow chamber profile frame, width: 550 mm, height: 1065 mm

Your advantages

- High efficiency of more than 22%
- Additional cells for increased charging efficiency
- Simple 1-person installation of the entire system
- Complete system except own electronics
- Simple supply chain

Commercial data

Item number	1587085
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	ACFDCC
Product key	ACFDCC
GTIN	4067923142923
Weight per piece (excluding packing)	6.8 kg
Customs tariff number	85414300
Country of origin	CN

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Set consists of

PV-C3F-S 2,5-6 (+) - Photovoltaic connector

1386381

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Photovoltaic connector, Range of articles: SUNCLIX, color: black, number of positions: 1, min. conductor cross-section: 2.5 mm², max. conductor cross-section: 6 mm², rated voltage: 1100 V DC, rated current: 35 A, Connection method: Spring-cage, min. cable diameter: 5.5 mm, max. cable diameter: 8 mm, Follow-up item to 1774674

PV-C3M-S 2,5-6 (-) - Photovoltaic connector

1386384

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Photovoltaic connector, Range of articles: SUNCLIX, color: black, number of positions: 1, min. conductor cross-section: 2.5 mm², max. conductor cross-section: 6 mm², rated voltage: 1100 V DC, rated current: 35 A, Connection method: Spring-cage, min. cable diameter: 5.5 mm, max. cable diameter: 8 mm, Follow-up item to 1774687

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Technical data

Notes

Recommendation	Please observe the application note in the download area.
General	Further information and detailed dimensions are available in the download area.
Standard test conditions (STC)	Irradiation at 1000 W/m ² , temperature: 25°C, air mass AM 1.5

Safety note

Safety note	<ul style="list-style-type: none">• WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.
	<ul style="list-style-type: none">• WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.
	<p>WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.</p>
	<ul style="list-style-type: none">• Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at phoenixcontact.com/products).
	<ul style="list-style-type: none">• When using the product in direct connection with third-party manufacturers, the user is responsible.
	<ul style="list-style-type: none">• Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory section of the product at phoenixcontact.com/products
	<ul style="list-style-type: none">• Observe the minimum bending radius of the cable. Lay the cable without twisting it.• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.

Product properties

Product type	Solar panel
Number of cells	42 (3 x 14)
Cell technology	Monocrystalline PERC with >22% efficiency

Electrical properties

Nominal power [P _{mpp}]	110 W -5 %/+10 %
Voltage at maximum power [U _{mpp}]	39.95 V
Current at maximum power [I _{mpp}]	2.75 A
Open-circuit voltage [U _{oc}]	48.47 V
Short-circuit current [I _{sc}]	2.83 A
Average daily yield in summer (Wh/d)	480
maximum reverse current [I _R]	12 A

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System voltage	max. 70 V
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Connection data

Connection technology	2 Spring-cage connection Photovoltaic connector
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Dimensions

Width	550 mm
Height	1065 mm
Depth	35 mm

Material specifications

Color (Frame)	silver-colored
Material Glass	Tempered solar glass (Front)
Material Frame	Aluminum (Anodized hollow chamber profile frame)

Cable/line

Cable length	1500 mm
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20 (when unplugged)
Ambient temperature (operation)	-40 °C ... 85 °C

Packaging specifications

Type of packaging	packed in cardboard
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Classifications

ECLASS

ECLASS-13.0	22570202
ECLASS-15.0	22570202

ETIM

ETIM 10.0	EC001746
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Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	Triphenyl phosphate(CAS: 115-86-6)
SCIP	816dce4b-bbe0-414b-93b3-b5c22d4a54ae

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