RAD-SOL-SET-24-200 - Solar system

2917722

https://www.phoenixcontact.com/us/products/2917722

PHŒNIX CONTACT

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24 V / 200 Wp solar system for worldwide use. Consisting of a solar panel, prewired control cabinet with charge controller, solar battery, fuses, surge protection and assembly material (including mast clips).

Product Description

Complete solar system, specially designed for the power supply of wireless modules and GSM modems. Prewired control cabinet with all safety equipment, solar charge controllers, surge protection, and two solar batteries. Four solar modules with mounting bracket for setting different module tilt angles.

Your advantages

- Stable structure thanks to the mounting material supplied

- Prewired control cabinet for outdoor use, white powder-coated finish, lockable, with charge controller, fuses, and surge protection

- Mounting on standard masts with a diameter of 76 mm

Commercial Data

Item number	2917722
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Sales Key	NULL
Product Key	CMUAPO
Catalog Page	Page 654 (IF-2011)
GTIN	4046356431354
Weight per Piece (including packing)	140 kg
Weight per Piece (excluding packing)	140 kg
Customs tariff number	85013100
Country of origin	DE

RAD-SOL-SET-24-200 - Solar system

Set consists of

RAD-SOL-BAT-12- 80 - Solar battery

2885498

https://www.phoenixcontact.com/us/products/2885498

12 V/100 Ah gel solar battery, designed for use in the 200 Wp RAD-SOL-SET-24-200 solar system. Two batteries are required to operate the solar system.

RAD-SOL-CHG-24- 10 - Charge controller

2885443

https://www.phoenixcontact.com/us/products/2885443

Fully automatic charge controller with electronic protection functions, for photovoltaic systems with a system voltage of 24 V.

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RAD-SOL-PAN-12- 50 - Solar module

2885456

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12 V/50 Wp solar module, designed for use in the RAD-SOL-SET-24-100 or RAD-SOL-SET-24-200 solar system. Two or four modules are required to operate the solar system.

RAD-SOL-BOX-24V - Control cabinet

2917353

https://www.phoenixcontact.com/us/products/2917353

Pre-wired aluminum cabinet for use outdoors, with charger, surge protection and fuses. Designed for use in the solar set RAD-SOL-SET-24-...

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RAD-SOL-MKT-200 - Solar panel bracket

2917337

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Solar panel bracket for mounting 4 x RAD-SOL-PAN-12-50 solar panels on the wall or on a mast

RAD-SOL-SET-24-200 - Solar system

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Technical Data

Electrical properties

Operating voltage	24 V DC

Dimensions

Width	500 mm
Height	760 mm
Depth	332 mm

Material specifications

Housing material	Aluminum

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	0 °C ... 20 °C
Wind velocity	25 m/s (per m² corresponds to wind load zone 2, at a force of 0. 39 kN)

Mounting

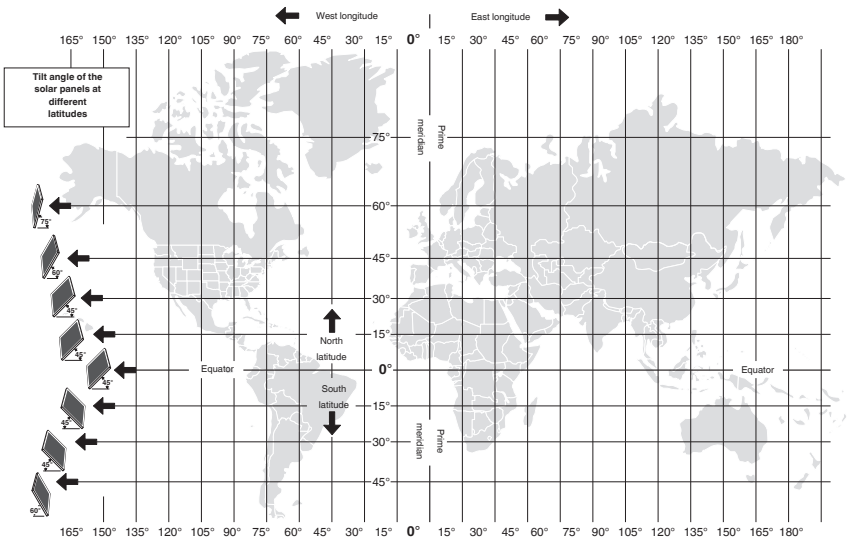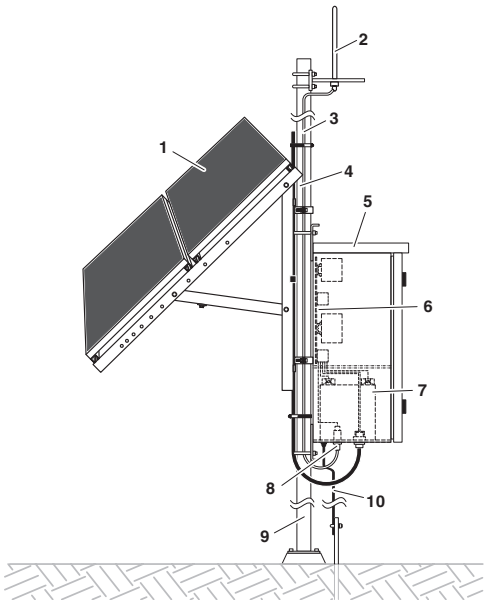|	
Assembly instructions	Suitable for masts with a cross section of 76 mm
Mounting position	Wall or mast mounting

Drawings

Diagram

Tilt angle

Schematic diagram

1 2 solar panels (conn. in series)
2 Antenna
3 Antenna cable
4 Flexible protective tubing
5 Control cabinet
6 Control cabinet electronics
7 Batteries
8 Surge protection for antenna cable
   and control cabinet electronics
9 Mast (e.g. signpost with 76 mm diameter
10 Protective earth (PE), grounding cable
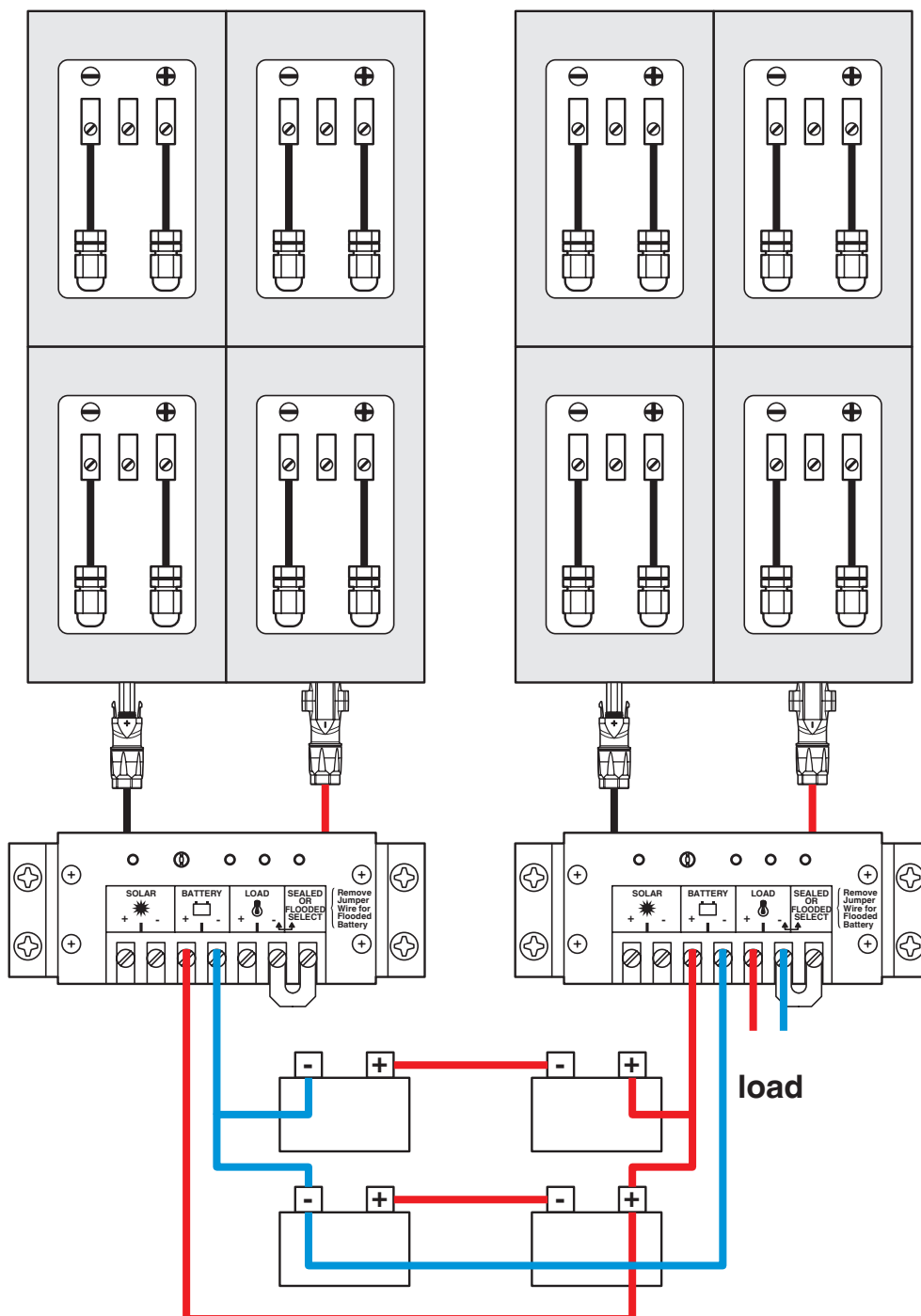
Example for a typical assembly of a solar system

Schematic diagram

load

Schematic diagram
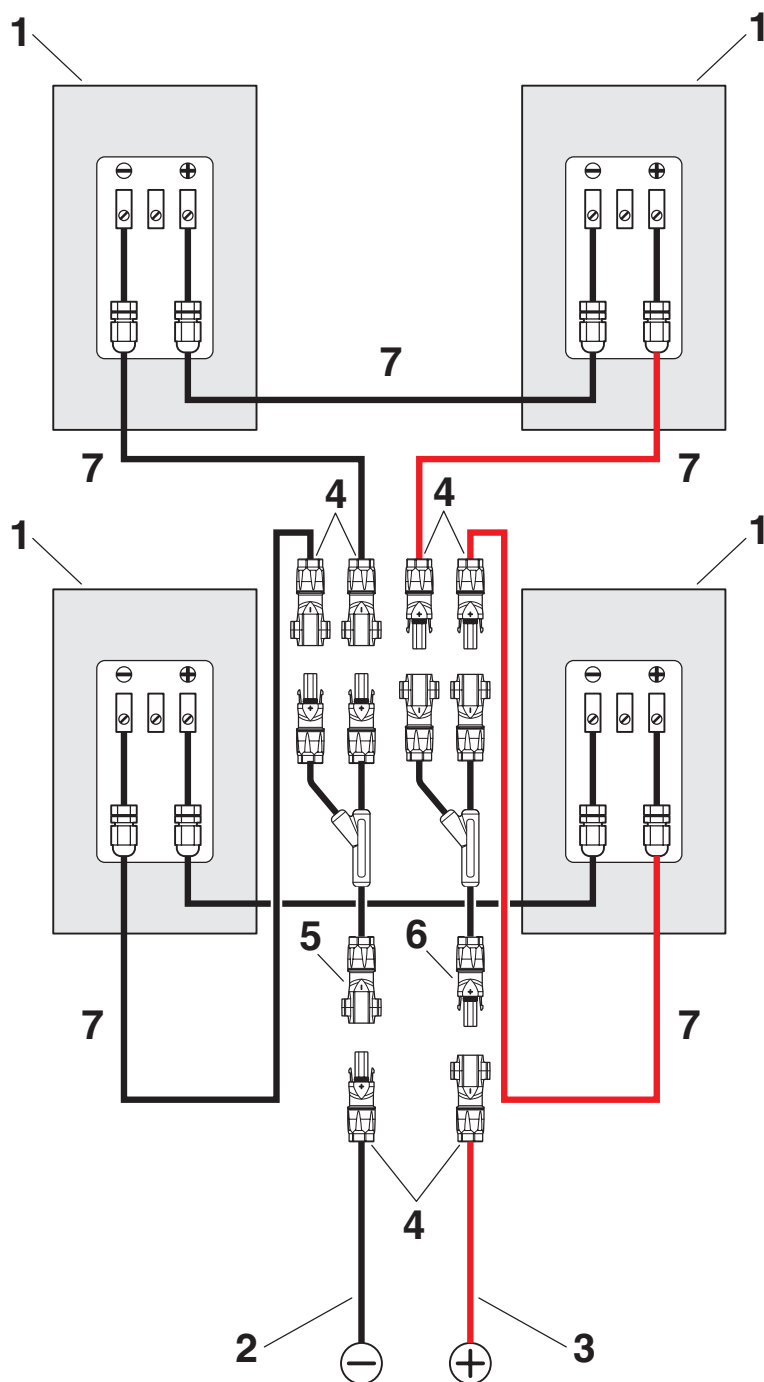
Connecting the cables

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Accessories

RAD-SOL-VENT-COVER - Aluminum plate

2917049

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Aluminum plate without perforations to cover the gill-type formations on the inside of the RAD-SOL-BOX-24V control cabinet door

RAD-SOL-BAT-12- 80 - Solar battery

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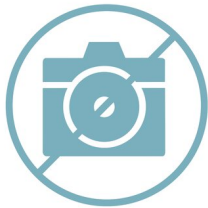
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RAD-SOL-PAN-12- 50 - Solar module

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RAD-SOL-MKT-200 - Solar panel bracket

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Solar panel bracket for mounting 4 x RAD-SOL-PAN-12-50 solar panels on the wall or on a mast

RAD-SOL-BOX-24V - Control cabinet

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Pre-wired aluminum cabinet for use outdoors, with charger, surge protection and fuses. Designed for use in the solar set RAD-SOL-SET-24-...

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