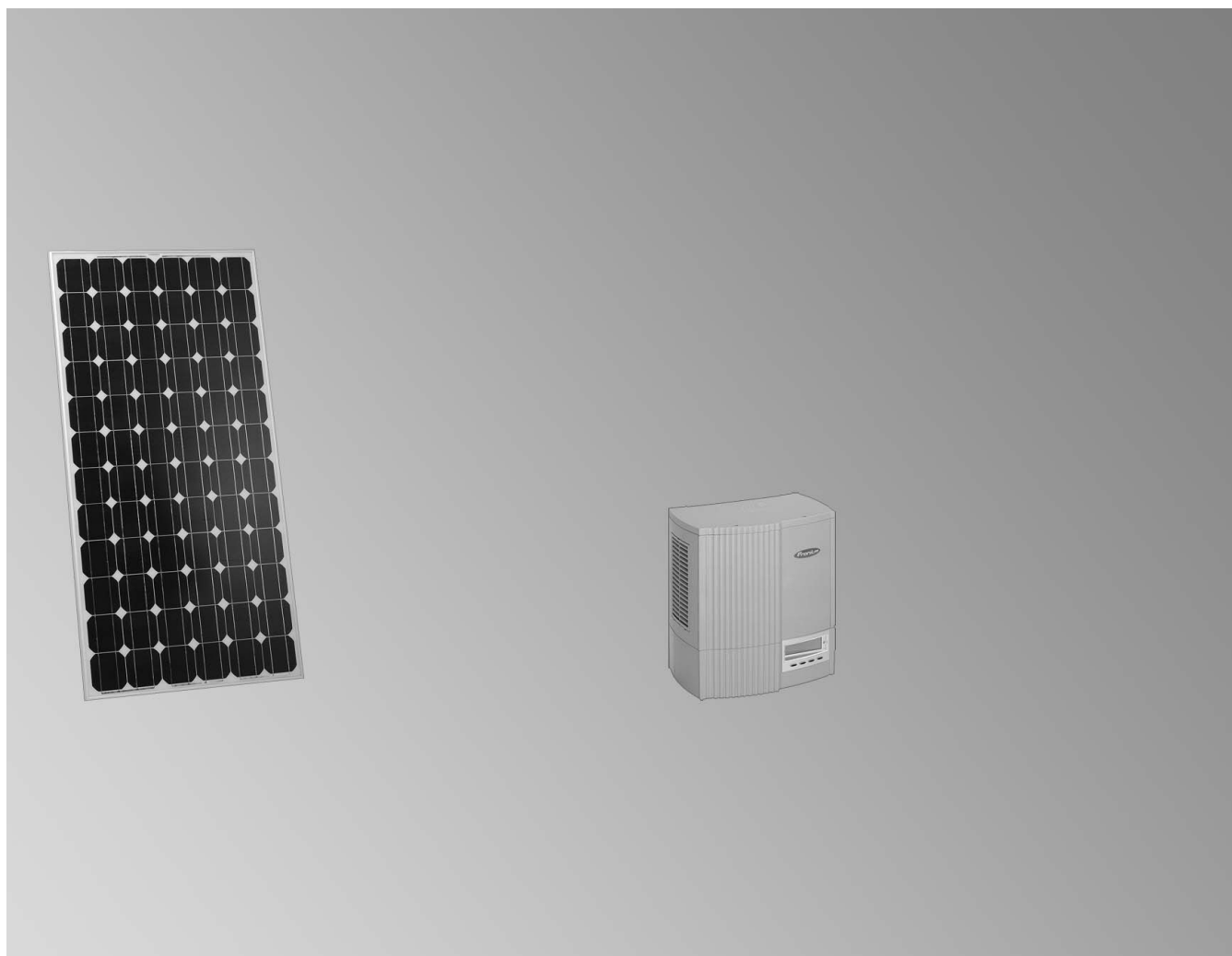


Datasheet

Part numbers and prices: see pricelist



File in:

VITOVOLT 200 Type SD2

Photovoltaic panels with 175 W_p (1.28 m² area)

For generating power from solar energy.

Suitable for vertical and horizontal installation on pitched roofs and horizontal installation on flat roofs.

Product description

Construction

The photovoltaic panel Vitovolt 200 comprises a total of 72 mono-crystalline silicon cells. The connection in series of the individual cells delivers a maximum of 175 W_p.

The panel is designed as a glass laminate construction. The individual solar cells are embedded between two plastic films. The rear cover is composed of a backing foil. Panes and foils are laminated together. This protects the cells against weather influences.

Function

Electrons are released as soon as light strikes the photovoltaic panels. Positive and negative load carriers collect at the electrical contacts - positive and negative poles - creating a DC current. The inverter transforms DC into AC current, which it feeds into the national grid. The current fed into the national grid is metered by a feed-in meter and paid for in accordance with the EEG [Germany] by your electricity supplier [check local regulations].

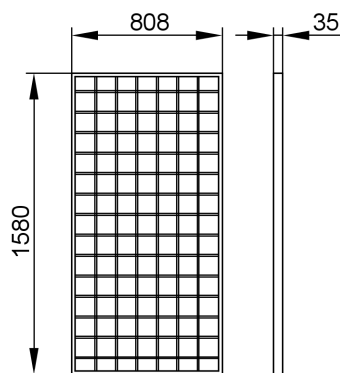
Benefits

- Assured performance through the selection of high quality mono-crystalline silicon cells.
- All necessary components, such as interconnecting cables and the inverter of the photovoltaic system, are perfectly matched to each other.
- Good inherent panel stability through a robust aluminium frame.
- Quick assembly:
 - Simple push connection of electrical cables
 - Installation set for vertical and horizontal rooftop installation.
- Integral bypass diodes deliver a high energy yield, even in partially shaded areas (avoiding hot spots).
- Fully wired, highly efficient inverter with integral information display. Data collection via RS-232 interface.
- System data is visualised via the following components:
 - Data transfer interface for integration into the inverter
 - or
 - Datalogger box as separate housing with integral data transfer interface
 - or
 - Generous display for easy viewing of the current system performance, daily and total energy.

Specification

Specification

Rated output	W_p	175
Output tolerance	%	±5
Type of cell		mono-crystalline silicon cells
Voltage at MPP*1	V	35.2
Current at MPP*1	A	4.95
Idle voltage (STC*2)	V	44.2
Short-circuit current (STC*2)	A	5.20
Temperature coefficients		
Output	%/K	-(0.5±0.05)
Idle voltage	mV/K	-(155±10)
Short circuit current	mA/K	5.3
Dimensions		
Width	mm	808
Height	mm	1580
Depth	mm	35
Weight	kg	15.5
Connection	Cables with a cross-section of 4 mm ² with Multicontact plug MC4	
Requirements of base structure and fixings	Roof construction with sufficient load-bearing capacity for the prevailing wind forces	



Performance warranty

- 12 years: 90 %
- 25 years: 80 %

Delivered condition

The Vitovolt 200 is delivered in packing units comprising 2 panels, fully wired with power cables.

Accessories

Fixing sets

For part no., see pricelist

Packed separately, subject to order:

The fixing sets contain the components required for the relevant method of installation:

- Timber
- Roof hooks

- Mounting plates
- Mounting rails
- Supports
- Clamping brackets, screws, nuts

*1 MPP = Maximum power point (maximum output at STC).

*2 STC = Standard test conditions (standardised test conditions: irradiation 1000 W/m², cell temperature 25 °C and atmospheric nucleon number AM 1.5 G).

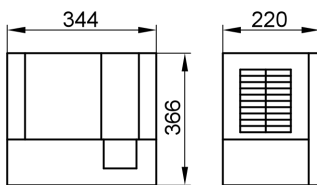
Accessories (cont.)

Inverter

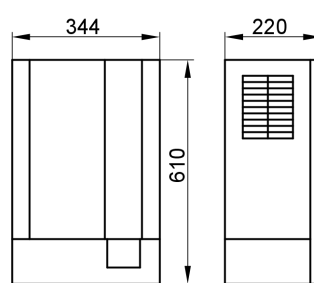
The inverter can be selected subject to the number of existing photovoltaic panels.

Inverter specification

Type		IG 15	IG 20	IG 30	IG 40	IG 60HV
System output	kW _p	1.3 to 2.0	1.8 to 2.7	2.5 to 3.6	3.5 to 5.5	4.6 to 6.7
Rated output						
Max. DC consumption	kW	1.61	2.15	2.85	4.41	5.38
Maximum AC output	kW	1.50	2.00	2.65	4.10	5.00
Standby mode						
– during day operation	W	7	7	7	12	12
– during night operation	W	0	0	0	0	0
MPP range DC	V	150-400				
Efficiency						
– European	%	91.4	92.3	92.7	93.5	93.5
– maximum	%	94.2	94.3	94.3	94.3	94.3
Weight	kg	9			16	
Protection		IP 21*1				



IG 15, IG 20 and IG 30



IG 40 and IG 60

Connecting cable

Part no. 7199 568

(2 pce. at 15 m long, 4 mm²)

For connecting the panels to the inverter

Adaptor set

Part no. 7248 293

(2 cables at 0.2 m long, 4 mm²)

To connect the Multicontact plugs MC4 to the photovoltaic panel with the Multicontact plug MC3 of the power cable

Extension cable

Part no. 7180 183

(1 pce. at 3 m long, 4 mm²)

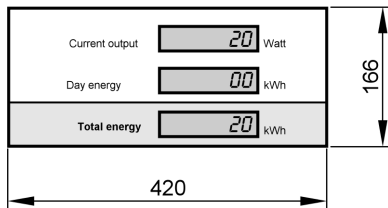
For interconnecting panels where they are installed further apart

*1 Protection IP 45 (outdoor version) on request.

Accessories (cont.)

Large display

Part no. 7143 989

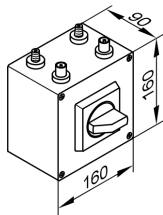


With pulse counter and software for easy viewing of the

- current output in W
 - day energy in kWh
 - total energy in kWh
- Only for internal applications.

DC isolator

Part no. 9570 243



Separates the generator (photovoltaic panels) at the DC side of the inverter.

2 strings may be connected.

Data transfer interface

Part no. 9556 337

COM CARD PCB for installation of the inverter in conjunction with the datalogger box.

In larger systems comprising several inverters, this inverter acts as link between the individual inverters (RS 485) and must be installed in each inverter (integral power supply for internal/external options; electrical separation towards the inverter).

Datalogger box

Part no. 9556 338

Separate housing with integral data transfer interface.

Suitable for recording data for up to 100 inverters (RS 485).

A connection to a PC (RS 232) enables the setting of parameters, maintenance and remote data transfer.

Datalogger box "EASY"

Part no. 7188 582

Datalogger box for **one** inverter.

Data cable

■ RS 232

Part no. 9556 339

Null modem cable for connection to an inverter with the PC.
2.0 m long.

■ RS 485

Part no. 9556 340

For interconnecting several inverters.
1.0 m long, with RJ 45 plug.

■ RS 485

Part no. 9556 341

For interconnecting several inverters.
20.0 m long, with loose plug.


Accessories (cont.)

SIGNAL CARD

Part no. 7188 581

For integration into the inverter.
For fault notification.

Tested quality

 CE designation according to current EC Directives

 Printed on environmentally friendly,
chlorine-free bleached paper

Subject to technical modifications.

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