steca
E l e k t r o n i k

COOL AND FROSTY,
ALWAYS AND ANYWHERE

Cooling and freezing in one unit

Steca PF refrigerators are the most efficient DC energy-saving refrigerators ever developed. They can be used as either a refrigerator or a freezer.

The Steca PF 166 and Steca PF 240 are fully programmable. The inside temperature and each of the other configuration values can be set by the user. They are therefore perfectly suited for all DC applications including even the refrigeration of medicines in hospitals.

Thanks to the latest A^{++} energy efficiency class, together with optimal electronic control and an RPM control of the compressor, it is possible to ensure that the energy is used extremely efficiently. This leads to significant cost reductions.
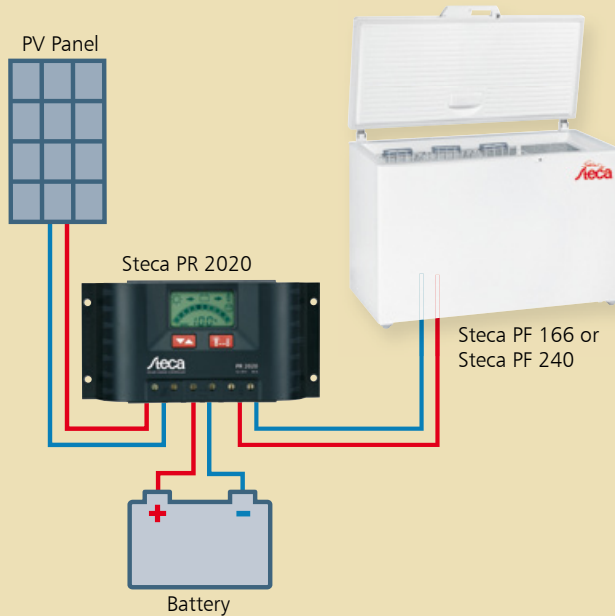
This product stands out for its user-friendliness, thanks to a large digital display with setting options, the highest standards of quality and reliability and a long service life. The refrigerator or freezer is easy to clean as it has a sealing plug on the bottom for draining water.

Application options are varied: whether in a solar home system or in a hospital - the solar refrigerator and freezer cabinet from Steca meets the highest demands.

Hospital, Nigeria

**Quality made
in Germany**

steca
ELEKTRONIK

»KEEPS IT ALL FRESH«

PV Panel

Steca PR 2020

Steca PF 166 or
Steca PF 240

Battery

Cold drinks, Carribean

Hospital, Afghanistan

System design examples

Steca PF 166						
Status	Irradiation	Ambient Temperature	Internal Temperature	Required PV Power	Required battery capacity	Time of battery autonomy
Fridge	5kWh/m²/d	35°C	5°C	175Wp	120Ah, 24V	3 days
Freezer	5kWh/m²/d	35°C	-15°C	510Wp	350Ah, 24V	3 days
Steca PF 240						
Status	Irradiation	Ambient Temperature	Internal Temperature	Required PV Power	Required battery capacity	Time of battery autonomy
Fridge	5kWh/m²/d	35°C	5°C	185Wp	125Ah, 24V	3 days
Freezer	5kWh/m²/d	35°C	-15°C	550Wp	375Ah, 24V	3 days

Product features

- A^{++} energy efficiency class
- Fast cooling due to compressor speed control
- Freezer runs on a 70 W photovoltaic module in most climates
- Automatic detection of voltage
- Temperature fully programmable
- Adjustable refrigerator or freezer[1] function
- Suitable for all DC applications
- Low maintenance and easy to clean
- Lock with two keys
- Also suitable for mobile use
- Auto-dimming for reduction of own consumption

Electronic protection functions

- Reverse polarity protection
- Deep discharge protection
- Power breakdown display
- Temperature alarm

Displays

- Multifunction LED display
- Digital temperature display

Operation

- Programming by buttons

Certificates

- Compliant with European Standards (CE)
- RoHS compliant
- Abstinence of ozone destroying materials according EC 1005/2009 (CFC-free)
- Developed in Germany
- Manufactured according to ISO 9001 and ISO 14001

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