# TAROM

235, 245, 440

Bornay Steca Tarom

The **Steca Tarom** is a solar charge controller specifically designed for use in telecommunications applications or in hybrid photovoltaic systems.

Numerous clever functions allow the user to adjust the controller to the particular features of the system in question. Thanks to the significantly improved state of charge determination, the system is optimally controlled and batteries are protected. The Steca Tarom charge controller is the best choice for system sizes of up to 2400 Wp at three voltage levels (12 V, 24 V, 48 V).

There is the option of connecting additional devices such as a temperature sensor, a data logger and a remote control for configuring and monitoring the system. An integrated Ah meter also provides the user with information on the energy budget of the application.

Product features

- Hybrid controller
- State of charge determination with Steca AtonIC (SOC)
- Automatic detection of voltage
- PWM control
- Multistage charging technology
- Load disconnection depending on SOC
- Automatic load reconnection
- Temperature compensation
- Common positive or negative grounding on one terminal
- Integrated data logger
- Night light function with Steca PA 15
- Integrated self test
- Monthly maintenance charge
- Integrated energy meter

Electronic protection functions

- Overcharge protection
- Deep discharge protection
- Reverse polarity protection of module and battery
- Reverse polarity protection by internal fuse
- Automatic electronic fuse
- Short circuit protection of load and module
- Overvoltage protection at module input
- Open circuit protection without battery
- Reverse current protection at night
- Overtemperature and overload protection
- Battery overvoltage shutdown

Displays

- Text LCD display
  - for operating parameters, fault messages, self test

Operation

- Simple menu-driven operation
- Programming by buttons
- Manual load switch

Interfaces

- RJ45 interface

Options

- External temperature sensor
- Alarm contact
- System monitoring via a Steca PA CAB1 Tarcom

Certificates

- Approved by the World Bank for Nepal
- Compliant with European Standards (CE)
- Made in Germany
- Developed in Germany
- Manufactured according to ISO 9001 and ISO 14001

# SPECIFICATIONS

| | 235 | 245 | 440 |
|---|---|---|---|
| **Performance** | | | |
| System voltage | | 12/24 V | 48 V |
| Own consumption | | 14 mA | |
| **DC input side** | | | |
| Module current | 35 Amp | 45 Amp | 40 Amp |
| **DC output side** | | | |
| Load current | 35 Amp | 45 Amp | 40 Amp |
| End of charge voltage | | 13,7 / 27,4 Vcc | 54,8 Vcc |
| Boost charge voltage | | 14,4 / 28,8 Vcc | 57,6 Vcc |
| Equalisation charge | | 14,7 / 29,4 Vcc | 58,8 Vcc |
| Reconnection voltage (LVR) | | >50 % / 12,6 Vcc / 25,2 Vcc | >50% / 50,4 Vcc |
| Deep discharge protection (LVD) | | <30% / 11,1 Vcc / 22,2 Vcc | <30% / 44,4 Vcc |
| **Operating conditions** | | | |
| Ambient temperature | | -10 °C a + 60 °C | |
| **Fitting and construction** | | | |
| Terminal (fine/single wire) | | 16 $mm^2$ / 25 $mm^2$ | |
| Degree of protection | | IP 32 | |
| Dimensions | | 187 x 128 x 49 mm | |
| Weight | | 550 gr. | |

Technical data at 25 °C

# DOWNLOADS

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