

Steca Power Tarom

2070, 2140, 4055, 4110, 4140

Specially designed for industrial and outdoor applications, the Steca Power Tarom comes with an IP 65 casing made of powder-coated steel.

This solar charge controller can be used to control system sizes of up to 8,400 Wp at three voltage levels (12 V, 24 V, 48 V). The Steca Power Tarom is based on the technology of the Steca Tarom controller. When connected in parallel, several controllers from this series can be operated via a standard DC bus in a simple solar home system or a hybrid system. This allows an output of over 20 kWp to be reached.



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 grounding 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, load 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

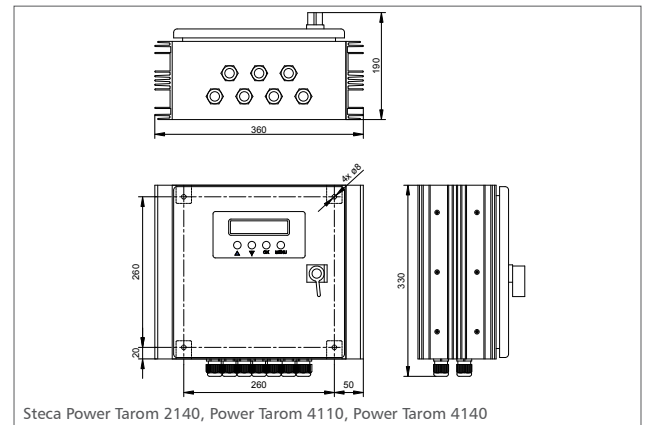
Options

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

Certificates

- Approved by the World Bank for Nepal
- Fit for use in tropical areas (DIN IEC 68 part 2-30)
- Compliant with European Standards (CE)
- Made in Germany
- Developed in Germany
- Manufactured according to ISO 9001 and ISO 14001

55 A...140 A



Steca Power Tarom 2140, Power Tarom 4110, Power Tarom 4140

| | 2070 | 2140 | 4055 | 4110 | 4140 |
|--|------------------------------|------------------------------|----------------------------|-----------------------------|------------------------------|
| Characterisation of the operating performance | | | | | |
| System voltage | 12 V (24 V) | | 48 V | | |
| Own consumption | 14 mA | | | | |
| DC input side | | | | | |
| Open circuit voltage solar module | < 50 V | | < 100 V | | |
| Module current | 70 A | 140 A | 55 A | 110 A | 140 A |
| DC output side | | | | | |
| Load current | 70 A | 70 A | 55 A | 55 A | 70 A |
| End of charge voltage | 13.7 V (27.4 V) | | 54.8 V | | |
| Boost charge voltage | 14.4 V (28.8 V) | | 57.6 V | | |
| Equalisation charge | 14.7 V (29.4 V) | | 58.8 V | | |
| Reconnection voltage (SOC / LVR) | > 50 % / 12.6 V (25.2 V) | | > 50 % / 50.4 V | | |
| Deep discharge protection (SOC / LVD) | < 30 % / 11.1 V (22.2 V) | | < 30 % / 44.4 V | | |
| Operating conditions | | | | | |
| Ambient temperature | -10 °C ... +60 °C | | | | |
| Fitting and construction | | | | | |
| Set battery type | liquid (adjustable via menu) | | | | |
| Terminal (fine / single wire) | 50 mm ² - AWG 1 | 95 mm ² - AWG 000 | 50 mm ² - AWG 1 | 70 mm ² - AWG 00 | 95 mm ² - AWG 000 |
| Degree of protection | IP 65 | | | | |
| Dimensions (X x Y x Z) | 330 x 330 x 190 mm | 360 x 330 x 190 mm | 330 x 330 x 190 mm | 360 x 330 x 190 mm | |
| Weight | 10 kg | | | | |

programmable

Technical data at 25 °C / 77 °F



Steca PA Tarcom data logger and Steca PA CAB1 Tarcom data cable



Steca PA HS200 Shunt



Steca PA 15 Remote control

Areas of application:

