Steca Tarom
4545, 4545-48

The new design for the Steca Tarom sets new standards in this power class. A graphic display informs the user about all important system data and enables configuration and adjustment of the controller to the specific requirements of the individual system.

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 the batteries are protected. The Steca Tarom charge controller is the best choice for system sizes of up to 2,400 Wp at three voltage levels (12 V, 24 V, 48 V).

The integrated data logger stores all important system data which can be read via an open Steca RS232 interface. As an option, an external temperature sensor can also be connected.

Two additional switching contacts can be freely configured as a timer, a night light function, to start generators or as surplus management.

ADVANCED

NEW GENERATION

Product features
· Hybrid controller
· State of charge determination (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
· Innovative data logger
· Night light function with Steca PA 15
· Integrated self test
· Monthly maintenance charge
· Integrated energy meter
· Two configurable multifunctional contacts

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
· Open circuit protection without battery
· Reverse current protection at night
· Overtemperature and overload protection
· Battery overvoltage shutdown

Displays
· Multifunction graphical LCD display with backlighting
  ~ for operating parameters, fault messages, self test

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

Interfaces
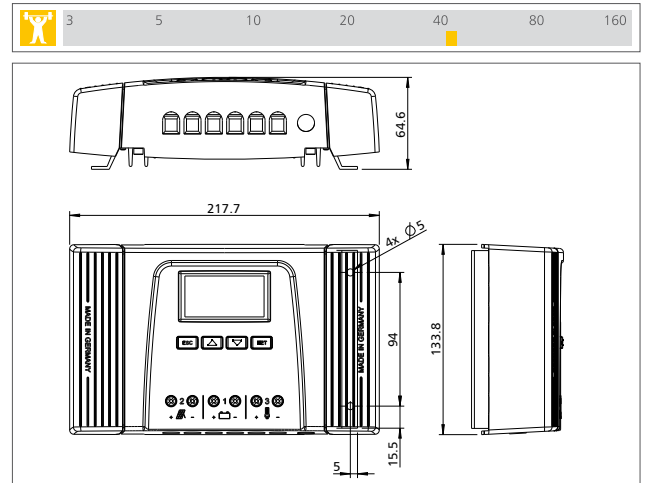· Open Steca RS232 interface

Options
· External temperature sensor
· Alarm contact

Certificates
· Compliant with European Standards (CE)
· Made in Germany
· Developed in Germany
· Manufactured according to ISO 9001 and ISO 14001

45 A

| 3 | 5 | 10 | 20 | 40 | 80 | 160 |

	4545	4545-48
Characterisation of the operating performance		
System voltage	12 V (24 V)	12 / 24 / 48 V
Own consumption	30 mA	
DC input side		
Module current	45 A	
DC output side		
Load current	45 A	
End of charge voltage	14.1 V (28.2 V)	56.4 V
Boost charge voltage	14.4 V (28,8 V)	57.6 V
Equalisation charge	15 V (30 V)	60 V
Reconnection voltage (SOC / LVR)	> 50 % / 12.5 V (25 V)	> 50 % / 50 V
Deep discharge protection (SOC / LVD)	< 30 % / 11,7 V (23.4 V)	< 30 % / 46.8 V
Operating conditions		
Ambient temperature	-10 °C … +60 °C	
Fitting and construction		
Set battery type	liquid (adjustable via menu)	
Terminal (fine / single wire)	25 mm² / 35 mm² - AWG 4 / 2	
Degree of protection	IP 31	
Dimensions (X x Y x Z)	218 x 134 x 65 mm	
Weight	800 g	

programmable

Technical data at 25 °C / 77 °F

Steca PA TS-S
External temperature sensor

Steca PA CAB2 Tarcom
Data cable

Areas of application: