

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 is capable of regulating large systems 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.



Product features

- Shunt topology with MOSFETs
- 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
- Negative earthing of one or positive earthing of several terminals possible
- Integrated data logger (energy meter)
- Integrated self test
- Monthly equalisation charge

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
- Load disconnection on battery overvoltage

Displays

- Text LC display

Operation

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

Interfaces

- RJ45 interface to PA Tarcom / PA HS200

Options

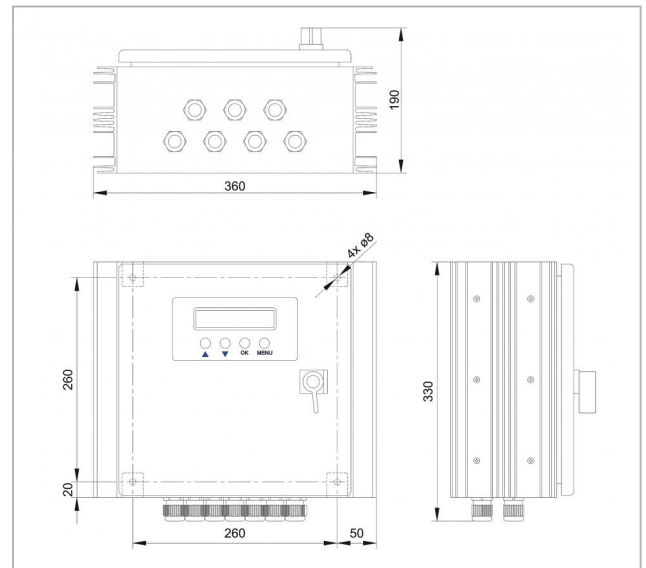
- External temperature sensor (included)
- Alarm contact

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
- Manufactured according to ISO 9001 and ISO 14001

Accessories

- Data logger Steca PA Tarcom
- Data cable Steca PA CAB1 Tarcom
- Current sensor Steca PA HS200
- External temperature sensor Steca PA TS10



	2070	2140	4055	4110	4140
Characterisation of the operating performance					
System voltage	12 V (24 V)	12 V (24 V)	48 V	48 V	48 V
Own consumption	14 mA				
DC input side					
Open circuit voltage solar module (at minimum operating temperature)	< 50 V	< 50 V	< 100 V	< 100 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
Reconnection voltage (SOC / LVR)	> 50 % / 12.6 V (25.2 V)	> 50 % / 12.6 V (25.2 V)	> 50 % / 50.4 V	> 50 % / 50.4 V	> 50 % / 50.4 V
Deep discharge protection < 30 % (SOC / LVD)	< 30 % / 11.1 V (22.2 V)	< 30 % / 11.1 V (22.2 V)	< 30 % / 44.4 V	< 30 % / 44.4 V	< 30 % / 44.4 V
Battery side					
End-of-charge voltage	13.7 V (27.4 V)	13.7 V (27.4 V)	54.8 V	54.8 V	54.8 V
Boost charge voltage	14.4 V (28.8 V)	14.4 V (28.8 V)	57.6 V	57.6 V	57.6 V
Equalisation charge	14.7 V (29.4 V)	14.7 V (29.4 V)	58.8 V	58.8 V	58.8 V
Set battery type	liquid (adjustable via menu)				
Operating conditions					
Ambient temperature	-10 °C ... +60 °C				
Fitting and construction					
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	360 x 330 x 190 mm
Weight	10000 g				

- Technical data at 25 °C / 77 °F
- Inverters must not be connected to the load output.