

## 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

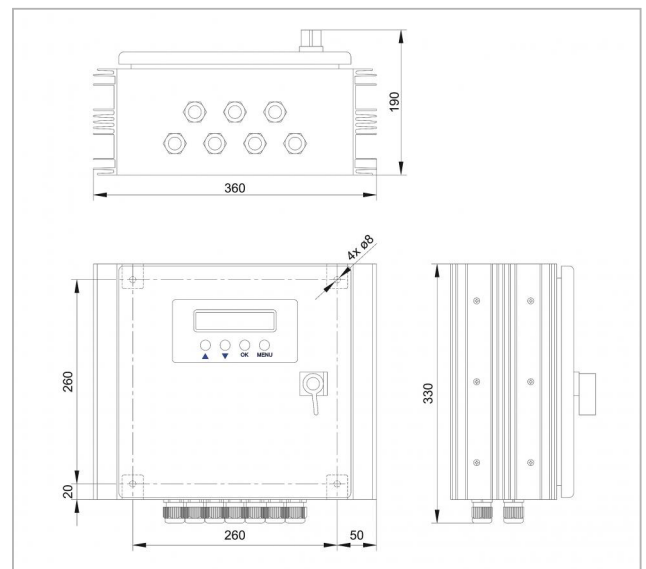
### Certificates

- 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

ADVANCED



	2070	2140	4055	4110	4140
<b>Characterisation of the operating performance</b>					
System voltage	12 V (24 V)	12 V (24 V)	48 V	48 V	48 V
Own consumption	14 mA				
<b>DC input side</b>					
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
<b>DC output side</b>					
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
<b>Battery side</b>					
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)				
<b>Operating conditions</b>					
Ambient temperature	-10 °C ... +60 °C				
<b>Fitting and construction</b>					
Terminal (fine / single wire)	50 mm <sup>2</sup> - AWG 1	95 mm <sup>2</sup> - AWG 000	50 mm <sup>2</sup> - AWG 1	70 mm <sup>2</sup> - AWG 00	95 mm <sup>2</sup> - AWG 000
Degree of protection	IP 65				
Dimensions (X x Y x Z)	330 x	360 x	330 x	360 x	360 x

Technical data at 25 °C / 77 °F	330 x	330 x	10000g	330 x	330 x
• Inverters must not be connected to the load output	90 mm	190 mm	190 mm	190 mm	190 mm

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