

Steca Tarom MPPT 6000-S, 6000-M

ADVANCED



The new design for the Steca Tarom sets new standards in this power class. The graphic display informs the user of all important system data. The data are saved by the integrated data logger.

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 ideal choice for larger systems at three voltage levels (12 V, 24 V, 48 V).

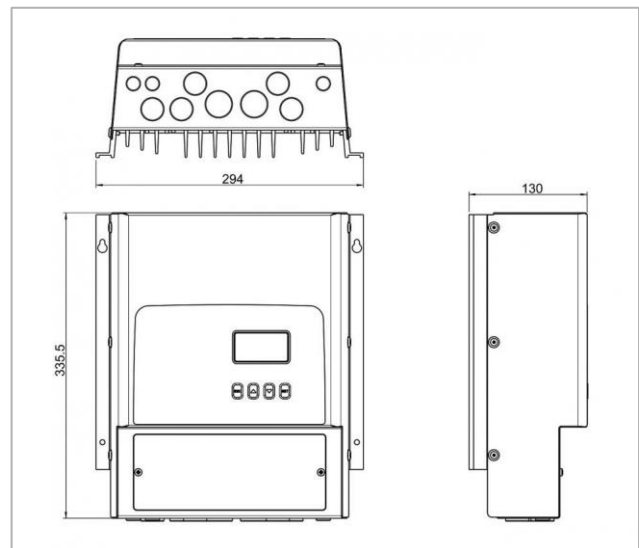
Two additional switching contacts can be freely configured as a timer, a night light function, to start generators or as surplus management.

Product features

- Two independent maximum power point trackers (MPP trackers)
- Two inputs (connected in parallel or used separately for two different module arrays)
- Robust metal casing
- Comprehensive data logging of energy values for up to 20 years
- MicroSD slot for data logging of all minute values (6000-M only)
- Voltage and current regulation
- Temperature compensation on Monthly equalisation charge
- Three configurable multifunctional contacts (6000-M only)
- Adjustable cut-off voltages
- Battery type: gel/liquid lead battery (for 6000-M also Li and NiCd batteries)
- Integrated, automatic module switch
- 36 V and 60 V batteries can be charged with special settings in expert menu level
- Parallel connectable

Electronic protection functions

- Overcharge protection
- Reverse polarity protection of module and battery
- Automatic electronic fuse
- Open circuit protection without battery
- Reverse current protection at night
- Overtemperature and overload protection
- PE connection



Displays

Multifunction graphical LC display with backlighting

Interfaces

StecaLink Bus

Open Steca RS-232 interface

Battery emergency off signal connection (optional, 6000-M only)

Options

Connection for battery voltage sensor cable

Certificates

Compliant with

European

Standards (CE)

RoHS compliant

Made in EU

Manufactured according to ISO 9001 and ISO 14001

Accessories

Data cable Steca PA

CAB3 Tarcom (6000-M

only) Current sensor Steca

PA HS400 (6000-M only)

External temperature sensor Steca PA TS-

S (for 6000-M included in the scope of

delivery)

MPPT 6000-S / MPPT 6000-M	
Characterisation of the operating performance	
System voltage	12 / 24 / 48 V
Nominal power	900 W / 1800 W / 3600 W
Max. DC-DC efficiency	99.4 % (Ubatt=48 V; Uin=70 V; P=0.65*Pnom)
European efficiency	96.6 % (Ubatt=24 V; Uin=30 V) 98.9 % (Ubatt=48 V; Uin=70 V)
European efficiency (weighted across all Ubatt and Uin)	96.4 %
Static MPP efficiency	99.9 % (DIN EN 50530)
Dynamic MPP efficiency	99.8 % (DIN EN 50530)
Weighted REW (Realistic Equally Weighted efficiency)	94.8 %
Own consumption	< 1 W
DC input side	
Min. MPP voltage / input	17 V / 34 V / 68 V
Max. MPP voltage / input	180 V
Min. Open circuit voltage solar module / input (at minimum operating temperature)	20 V / 40 V / 80 V
Max. Open circuit voltage solar module / input (at minimum operating temperature)	200 V
Module current	2 x 30 A / 1 x 60 A
Battery side	
Charge current	60 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
Set battery type	liquid (adjustable via menu)
Operating conditions	
Ambient temperature	-25 °C ... +50 °C
Fitting and construction	