Steca Tarom

235, 245, 440

The steca Tarom is the high end solar charge controller optimally designed for demanding telecom applications and complex off-grid PV hybrid system architectures. A huge variety of exiting features allow the user to adapt this controller to the special needs of the specific installation. The optimized SOC calculation of Steca is implemented in the Tarom. It is your best choice for the medium and large power range (up to 2400 Wp) on three voltage levels (12V, 24V, 48V). Additionally, it is possible to connect further devices like a temperature sensors, a data logger and a remote switch to configure and monitor the photovoltaic system optimally. An inbuilts Ah counter gives additional valuable energy balance information to the user.

Features

- PWM shunt battery charging
- State of charge (SOC) battery regulation
- Energy management for hybrid systems
- Built in Ah counter
- Boost-, Equalising-, Float charging
- Automatic load reconnection
- Automatic selection of voltage for 12V/24V
- Temperature compensation
- Positive grounding (or)negative grounding on one terminal
- Field adjustable parameters by four buttons
- Lighting controloptions during nighttime with PA 15
- RJ45 interface Manual load disconnect
- Optional: external temperature sensor

Displays

- Two line LCD showing SOC, Vbat, all currents, Ah, alarms, charging procedure

Electronic protection functions

- High voltage disconnect (HVD)
- Low voltage disconnect (LVD)
- Dept of discharge disconnection (DOD)
- Reverse polarity of solar modules
- Reverse polarity of load battery
- Electronic fuse
- Short circuit of solar modules
- Short circuit of load
- Over temperature
- Over voltage
- Lightning protection by varistor
- Low electronic interference (EMC)
- Open circuit battery
- Reverse current at night

Solar charge controller	Tarom 235	Tarom 245	Tarom 440
System voltage	12 V (24 V)		48 V
Max. module input short circuit current	35 A	45 A	40 A
Max. load output current	35 A	45 A	40 A
Max. self consumption	14 mA		
End of charge voltage (float)	13.7 V (27.4 V)		54.8 V
Boost charge voltage; 2 h	14.4 V (28.8 V)		57.6 V
Equalisation charge (deactivated for gel accu); 2 h	14.7 V (29.4 V)		58.8 V
Reconnection setpoint (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
Ambient temperature allowed	-10 °C... +60 °C		
Terminal size (fine/single wire)	16mm² /25 mm²		
Enclosure protection class	IP 22		
Weight	350 g		
Dimensions l x w x h	188 x 128 x 49 mm		

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