

Features and Technical Specifications

Steca Power Tarom

2070, 2140, 4055, 4110, 4140



Designed for industrial and outdoor applications, Steca Power Tarom controllers come in a IP 65 powder painted steel enclosure for the large power range (up to 8400 Wp) on three voltage levels (12V, 24V, 48V). Power Tarom controllers are based on the same technology as the stecca Tarom controllers. If you connect them in parallel on a common DC bus power line, several controllers operate in one single PV or PV hybrid system in the range up to 20kWp of solar power.

Features

- PWM shunt battery charging
- state of charge (SOC) battery regulation
- 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 control options during nighttime
- RJ45 interface
- Manual load disconnect
- Dry contact
- Optional: external temperature sensor

Displays

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

Electronic protections

- High voltage disconnect (HVD)
- Low voltage disconnect (LVD)
- Depth of discharge disconnection (DOD)
- Reverse polarity of solar modules
- Reverse polarity of load battery
- 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	Power Tarom 2070	Power Tarom 2140	Power Tarom 4055	Power Tarom 4110	Power Tarom 4140
System voltage	12 V (24 V)		48 V		
Max. module input short circuit current	70 A	140 A	55 A	110 A	140 A
Max. load output current	70 A	70 A	55 A	55 A	70 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 2h (deactivated for gel accu)	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)	50mm ² / 50 mm ²				
Enclosure protection class	IP 65				
Weight	10 kg				
Dimensions l x w x h (l) x 330 x 157	330 mm	360 mm	330 mm	360 mm	360 mm

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