



Steca PowerTarom

2070, 2140, 4055, 4110, 4140

Designed for industrial and outdoor applications, Steca PowerTarom controllers come in a IP 65 powder painted steel enclosure for the large power range (up to 8400 Wp) on three voltage levels (12 V, 24 V, 48 V). Power Tarom controllers are based on the same technology as the Steca 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 20 kWp of solar power.

(For more information about Steca hybrid systems see page 46-47)

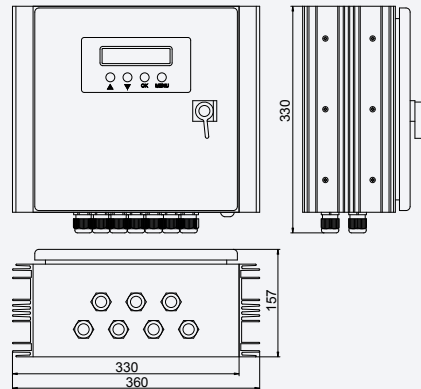
Features

- 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 12 V / 24 V
- 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

Protection functionality

- High voltage disconnect (HVD)
- Low voltage disconnect (LVD)
- Dept 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

Technical data

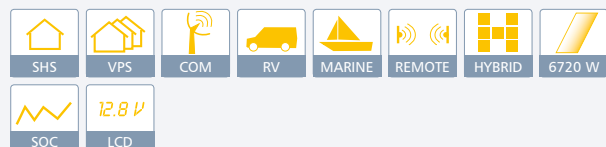
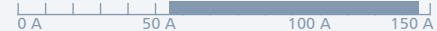


Solar Charge Controller	Power Tarom 2070	Power Tarom 2140	Power Tarom 4055	Power Tarom 4110	Power Tarom 4140
System voltage	12 V (24 V)		48 V		
Max. module input short circuit current	70 A	140 A	55 A	110 A	140 A
Max. load output current	70 A	70 A	55 A	55 A	70 A
Max. self consumption	14 mA				
programmable	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 2 h (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)	50 mm ² / 70 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

Technical data at 25 °C / 77 °F

Power class

55 A - 140 A



Displays

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

Certificates

- Listed for Worldbank funded projects in Nepal
- Conform to European Standards (CE)
- Made in Germany
- Manufactured in a DIN EN ISO 9001:2000 and DIN EN ISO 14001 facility