



## Steca PL 2085

The PL 2085 is a solar charging station which charges up to 8 lead-acid batteries simultaneously. The microprocessor controlled charging station recognizes the connection sequence of the batteries. The battery which is connected first is charged first and as soon as the first battery is full, it switches over to the second battery etc.

Every battery terminal of maximum 5 Amps is a separate DC / DC converter with maximum power point tracking (MPP) of the solar generator. Up to two battery terminals can be connected in parallel on the same battery. These terminals are protected against wrong polarity, short circuit, no load operation and overload. Batteries are charged to predefined IU constant current charging procedures until end of charge voltage is reached. Battery charging starts even from run down batteries at voltages higher than 5V. At night the charging station works in a energy saving mode and no battery data is lost.

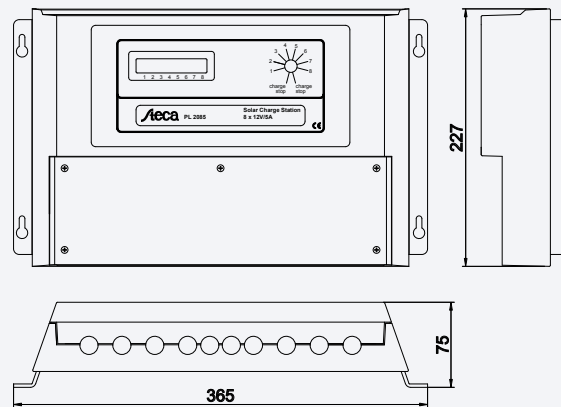
### Features

- MPP tracking of solar generator
- Simultaneous charging of up to 8 batteries
- Up to two terminals in parallel operation
- Special battery recovery (healing) mode
- Built in Ah counter for each battery terminal
- Temperature compensation

### Electronic Protections

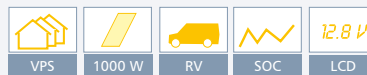
- Module over current
- Overcharging
- Over temperature
- Reverse polarity of batteries
- No load operation
- Short circuit
- Electronic fuses

### Technical data



Solar Charging Station	PL 2085
Number of charging terminals	8
Current per terminal allowed	5 A
Recommended module power in 24 V system	200 - 1,000 Wp
Battery nominal voltage	12 V
End of charge voltage (float)	13.8 V
Boost charge voltage	14.7 V
Ambient temperature allowed	-20 °C...+50 °C
Terminal size (fine / single wire)	16 mm <sup>2</sup> / 25 mm <sup>2</sup>
Enclosure protection class	IP 54
Weight	2 kg
Dimensions l x w x h	365 x 227 x 75 mm

*Technical data at 25 °C / 77 °F*



### Displays

- Selection of battery terminal by rotating switch
- Displays each single battery terminal
- State of battery charging procedure
- Battery voltage, load current
- Ah charged into each battery
- State of charge
- Charge current
- Battery defects