



- PWM series regulation
- Automatic system voltage detection 12/24 V
- Temperature-compensated charging with Gas control
- Deep discharge Protection (DDP) with advanced warning
- PV module and DC load disconnection
- Suitable for power sources other than solar cells
- Optional LCD display and RS232 port

## Microcontroller-based technology

The PSC charge controller series are the ideal choice for charging and protecting your batteries using state-of-the-art technology. All switching thresholds have been carefully chosen to suit most battery types and they are controlled by a microprocessor. Automatic load disconnection/reconnection upon over-voltage/deep discharge state is another useful feature, just as the temperature-compensated charging. All PSC units are equipped with automatic 12/24V system voltage detection.

## Widespread use

The PSC charge controller uses PWM (Pulse Width Modulation) *series* regulation, e.g. the charging limit is regulated by modulating the charging current coming from the solar module. Therefore other charger types (such as standard power supplies, etc.) can also be connected additionally to the PV input terminal, not only solar cells.

## PSCD series

For those who prefer to be familiar with their system parameters, Panelectron offers additional LCD display. Information can be read out on actual / min. / max. system voltage and current, as well as temperature. The RS232 communication port enables users to monitor their solar charge controller directly from their PC.

## Specifications

Nominal voltage:	12 / 24 V
Solar module current:	10 / 20 / 30 A (according to each model)
Load current:	10 / 20 / 30 A (according to each model)
Max. current consumption:	10 mA
- Charging limit, float charge at 25°C:	13,8 V / 27,6 V
- Charging limit, Gas control at 25°C:	14,4 V / 28,8 V
- Gas control activation:	12,3 V / 24,6 V
- Temperature-compensation:	-4 mV/K/Cell
Deep discharge disconnection:	
- Constant:	10,5 V / 21,0 V
- Reset voltage:	12,0 V / 24,0 V
Fuse:	10 / 20 / 30 A (according to each model)
Temperature range:	-25° C ... +40° C
Optional:	
Port:	RS232 Pin 2=TXD 3=RXD 5=GND
LCD display:	1x16 digit, alphanumeric
- Voltage range:	8,00V ... 32,00V +/- 2Digit +/-2% from max. value
- Current range:	- 30,0A ... + 30,0A +/- 2Digit +/-5% from max. value
- Temperature range:	- 40 °C ... + 50°C +/- 2Digit +/- 5% from max. value
Dimensions (LxWxH):	190x120x53mm
Weight (without LCD / with LCD):	0,45kg / 0,5kg

Part no:	PSC-10	PSC-20	PSC-30	PSCD-10	PSCD-20	PSCD-30
----------	--------	--------	--------	---------	---------	---------