

**fangpusun Solarix PRS**

**PRS 1010, PRS 1515, PRS 2020, PRS 3030**

The simplicity and high performance of the Fangpusun Solarix PRS solar charge controller make it particularly appealing. At the same time, it offers a modern design and a convenient display, all at an extremely attractive price. Several LEDs in various colours emulate a tank display, which gives information on the battery's state of charge. Here, Fangpusun's latest algorithms are employed, resulting in optimal battery maintenance. The Solarix PRS charge controllers are equipped with an electronic fuse, thus making optimal protection possible. They operate on the serial principle, and separate the solar module from the battery in order to protect it against overcharging. For larger projects, the charge controllers can also be equipped with special functions: e.g. with night light function and selectable charging plateau and deep-discharge protection voltages.

**Product features**

- Series controller
- Voltage regulation
- Automatic detection of voltage
- PWM control
- Multistage charging technology
- Current compensated load disconnection
- Automatic load reconnection
- Temperature compensation
- Common positive grounding or negative grounding on one terminal
- Intergrated self test
- Monthly maintenance charge

**Electronic protection functions**

- Overcharge protection
- Deep discharge protection
- Reverse polarity protection of load, module and battery
- Automatic electronic fuse
- Short circuit protection of load and module
- Overvoltage protection at module input
- Open circuit protection without battery
- Reverse current protection at night
- Overtemperature and overload protection
- Battery overvoltage shutdown

**Displays**

- Multifunction LED display
- Multi-coloured LED
- 5 LEDs show operating states for operation, state of charge, fault messages

**Options**

- Night light function pre set in the factory or adjustable via Fangpusun PA RC 100
- Parameterisation of function values via Fangpusun PA RC 100

**Certificates**

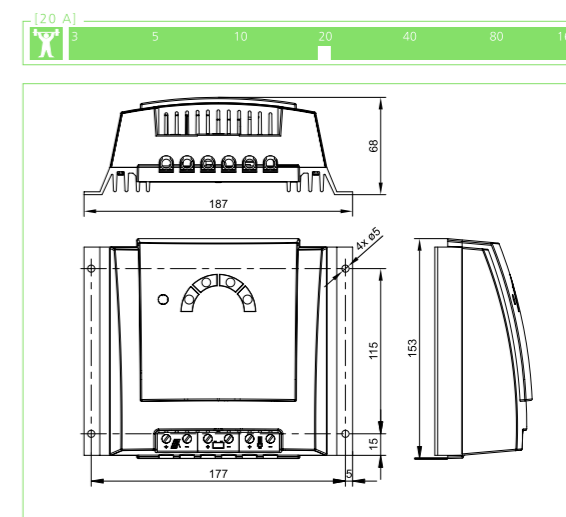
- Compliant with European Standards (CE)
- RoHS compliant
- SGS
- SO 9001
- Made in China

	PRS 1010	PRS 1515	PRS 2020	PRS 3030
<b>Characterisation of the operating performance</b>				
System voltage	12 V (24 V)			
Own consumption	< 4 mA			
<b>DC input side</b>				
Open circuit voltage solar module	< 47 V			
Module current	10 A	15 A	20 A	30 A
<b>DC output side</b>				
Battery voltage	9 V ... 17 V (17.1 V ... 34 V)			
Load current	10 A	15 A	20 A	30 A
End of charge voltage	13.9 V (27.8 V)			
Boost charge voltage	14.4 V (28.8 V)			
Equalisation charge	14.7 V (29.4 V)			
Reconnection voltage (SOC / LVR)	> 50 % / 12.4 V ... 12.7 V (24.8 V ... 25.4 V)			
Deep discharge protection (SOC / LVD)	< 30 % / 11.2 V ... 11.6 V (22.4 V ... 23.2 V)			
<b>Operating conditions</b>				
Ambient temperature	-25 °C ... +50 °C			
<b>Fitting and construction</b>				
Terminal (fine / single wire)	16 mm <sup>2</sup> / 25 mm <sup>2</sup> - AWG 6 / 4			
Degree of protection	IP 32			
Dimensions (X x Y x Z)	187 x 96 x 45 mm			
Weight	345 g			

Technical data at 25 °C / 77 °F



Remote control Fangpusun PA RC100



**fangpusun Solarix MPPT**

**MPPT 1010, MPPT 2010**

Fangpusun Solarix MPPT 2010 is a solar charge controller with Maximum Power Point Tracking. It is specially designed to work with all established module technologies and is optimized for solar systems with module voltages higher than the battery voltage. The Fangpusun Solarix MPPT 2010 is especially qualified in combination with grid tied solar modules. The advanced MPP-tracking algorithm from Fangpusun assures that the maximum available power of the solar generator is charged to the batteries. The Fangpusun Solarix MPPT 2010 with latest technology ensures full performance in all conditions, a professional battery care combined with modern design and excellent protection.

**Product features**

- Maximum Power Point Tracker (MPP tracker)
- Voltage regulation
- Automatic detection of voltage
- PWM control
- Current compensated load disconnection
- Automatic load reconnection
- Temperature compensation
- Monthly maintenance charge

**Electronic protection functions**

- Overcharge protection
- Deep discharge protection
- Reverse polarity protection of load, module and battery
- Reverse polarity protection by internal fuse
- Automatic electronic fuse
- Short circuit protection of load and module
- Overvoltage protection at module input
- Open circuit protection without battery
- Reverse current protection at night
- Overtemperature and overload protection
- Battery overvoltage shutdown

**Displays**

- Multifunction LED display
- Multi-coloured LED
- 5 LEDs show operating states for operation, state of charge, fault messages

**Options**

- Night light function pre-set in the factory or adjustable via Fangpusun PA RC 100
- Parameterisation of function values via Fangpusun PA RC 100

**Certificates**

- Compliant with European Standards (CE)
- RoHS compliant
- SGS
- ISO 9001
- Made in China



Remote control Fangpusun PA RC100

	MPPT 1010	MPPT 2010
<b>Characterisation of the operating performance</b>		
System voltage	12 V (24 V)	
Nominal power	125 W (250 W)	250 W (500 W)
Max. efficiency	> 98 %	
Own consumption	10 mA	
<b>DC input side</b>		
MPP voltage	15 V (30 V) < V <sub>module</sub> << 100 V	
Open circuit voltage solar module ** (at minimum operating temperature)	17 V ... 100 V (34 V ... 100 V)	
Module current	10 A	18 A
<b>DC output side</b>		
Charge current	10 A	20 A
Load current	10 A	
End of charge voltage*	13.9 V (27.8 V)	
Boost charge voltage*	14.4 V (28.8 V)	
Equalisation charge*	14.7 V (29.4 V)	
Reconnection voltage* (LVR)	12.5 V (25 V)	
Deep discharge protection* (LVD)	11.5 V (23 V)	
<b>Operating conditions</b>		
Ambient temperature	-25 °C ... +40 °C	
<b>Fitting and construction</b>		
Terminal (fine / single wire)	16 mm <sup>2</sup> / 25 mm <sup>2</sup> - AWG 6 / 4	
Degree of protection	IP 32	
Dimensions (X x Y x Z)	187 x 153 x 68 mm	
Weight	approx. 900 g	

\* see options

Technical data at 25 °C / 77 °F

\*\*CAUTION: If an open circuit voltage of more than 100 V is supplied to the connected solar module, the controller will be destroyed. When selecting the solar module, it is important to bear in mind that the open circuit voltage should never exceed 100 V over the entire working temperature range. When using solar modules with a maximum open circuit voltage of between 75 and 100 V (over the entire temperature range), all installation steps must be carried in accordance with protection class II.

