



fangpusun Power Tarom

2070, 2140, 4110, 4140

Specially designed for industrial and outdoor applications, the Fangpusun Power Tarom comes with an IP 65 casing made of powder-coated steel. This solar charge controller can be used to control system sizes of up to 8400 Wp at three voltage levels (12V, 24V, 48V). The Fangpusun Power Tarom is based on the technology of the Fangpusun Tarom controller. When connected in parallel, several controllers from this series can be operated via a standard DC bus in a simple solar home system or a hybrid system. This allows an output of over 20 kWp to be reached.

Product features

- Hybrid controller
- State of charge determination with Fangpusun AtonIC (SOC)
- Voltage regulation
- Automatic detection of voltage
- PWM control
- Multistage charging technology
- Load disconnection depending on SOC
- Automatic load reconnection
- Temperature compensation
- Common positive grounding or negative grounding on one terminal
- Intergrated data logger
- Night light function with Fangpusun PA 15
- Intergrated self test
- Monthly maintenance charge
- Intergrated energy meter

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 over voltage shutdown

Displays

- Text LCD display for operation, state of charge, fault messages

Operation

- Simple menu-driven operation
- Programming by buttons
- Manual load swith

Interfaces

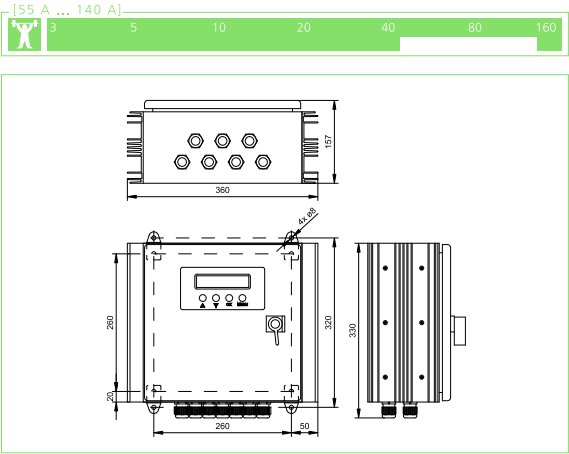
- Rj45 interface

Options

- External temperature sensor
- Alarm contact

Certificates

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



	2070	2140	4055	4110	4140
Characterisation of the operating performance					
System voltage	12 V (24 V)			48 V	
Own consumption	14 mA				
DC input side					
Open circuit voltage solar module	< 47 V			< 82 V	
Module current	70 A	140 A	55 A	110 A	140 A
DC output side					
Load current	70 A	70 A	55 A	55 A	70 A
End of charge voltage	13.7 V (27.4 V)			54.8 V	
Boost charge voltage	14.4 V (28.8 V)			57.6 V	
Equalisation charge	14.7 V (29.4 V)			58.8 V	
Reconnection voltage (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	
Operating conditions					
Ambient temperature	-10 °C ... +60 °C				
Fitting and construction					
Terminal (fine / single wire)	50 mm² / 70 mm² - AWG 1 / 00				
Degree of protection	IP 65				
Dimensions (X x Y x Z)	330 x 330 x 157 mm	360 x 330 x 157 mm	330 x 330 x 157 mm	360 x 330 x 157 mm	
Weight	10 kg				

Technical data at 25 °C / 77 °F



Fangpusun PA Tarcom  
Data logger  
12/24/48V  
(page 19)



Fangpusun PA Hs200  
Shunt  
10-65V  
(page 20)



Fangpusun PA 15  
Solar charge controller  
10-30A, 12/24V  
(page 21)



Fangpusun PA Rc100  
Remote control

Fangpusun PA RC100 remote control allows to program Fangpusun solar charge controllers .The values can be adjusted with the help of switches .After a restart of the charge controller the new settings can be activated by pressing the program button on the Fangpusun PA RC100 .An LED will transfer the values to the controller.

Product features

- Low weight
- Simple installation
- Maintenance-free
- Low own consumption
- Best reliability

	PA RC100
Characterisation of the operating performance	
Supply voltage	4.5 V (3 * 1.5 V AAA / R03 batteries)
Adjustable parameters	– Type of battery: gel / liquid – Night-light function – End of charge voltages (float / boost / equal) – Deep discharge protection (LVD) – LVD factor – Switch-on threshold
Suitable for the following Fangpusun charge controllers	– Fangpusun Solsum F – Fangpusun PRS – Fangpusun Solarix MPPT 2010
Fitting and construction	
Dimensions (X x Y x Z)	115 x 57 x 20 mm
Weight	90 g

Technical data at 25 °C / 77 °F