

ViewStar series Solar Controller



ViewStar series solar charge controller that adopts the most advanced digital technique, displays on the LCD and operates fully automatically. The Pulse Width Modulation (PWM) battery charging and the unique control technology can greatly increase the lifetime of battery.

Application:

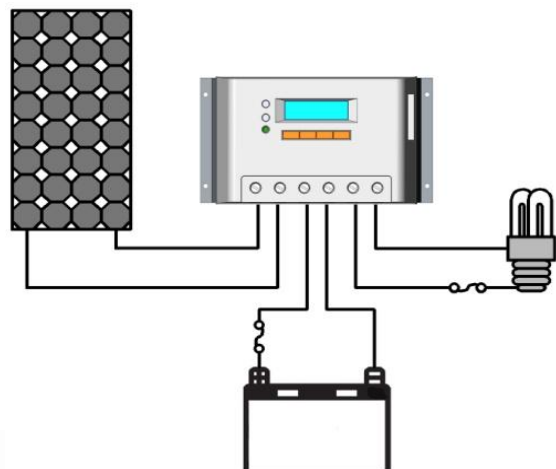
Ideal for medium off-grid solar system with LCD display.

- ★ Solar power station
- ★ Solar lighting system



Features:

- ◆ Excellent EMC design
- ◆ 32 bit MCU with high speed
- ◆ High efficient Series PWM charging
- ◆ Gel, Sealed and Flooded battery type option
- ◆ Widely used, automatically recognize day/night
- ◆ 12 bit A/D high-precision sampling to ensure accuracy
- ◆ Use MOSFET as electronic switch
- ◆ Full control parameters setting and modification, diversified load control mode
- ◆ Humanized design of browser interface, undertake every operating conveniently
- ◆ Temperature compensation
- ◆ Adopt graphics dot-matrix LCD screen and HMI (human-machine interface) with 4 buttons, integrated menu displaying and operation
- ◆ Electronic protection: Overheating, over charging, over discharging, overload, and short circuit
- ◆ Reverse protection: any combination of solar module and battery



ViewStar Series Solar Controller

Electrical parameters	VS1024N	VS2024 N	VS3024 N	VS4024 N	VS5024 N	VS6024N
		VS2048N	VS3048N	VS4048N	VS5048N	VS6048N
Nominal System Voltage	12V/24V auto work	VS**24N: 12V/24V auto work				
		VS**48N:12V/24V/48V auto work				
Rated Battery Current	10A	20A	30A	40A	50A	60A
Max. Battery Voltage		VS**24N: 32V VS**48N:64V				
Charge Circuit Voltage Drop		≤0.24V				
Discharge Circuit Voltage Drop		≤0.16V				
Self-consumption		≤18mA				
Communication		TTL232 / 8pin RJ45				

Battery Voltage Parameters (temperature at 25°C)

Battery charging setting	Gel	Sealed	Flooded
Equalize Charging Voltage	—	14.6V;x2/24V	14.8V;x2/24V
Boost Charging Voltage	14.2V;x2/24V	14.4V;x2/24V	14.6V;x2/24V
Float Charging Voltage	13.8V;x2/24V	13.8V;x2/24V	13.8V;x2/24V
Low Voltage Reconnect Voltage	12.6V;x2/24V	12.6V;x2/24V	12.6V;x2/24V
Low Voltage Disconnect Voltage	11.1V;x2/24V	11.1V;x2/24V	11.1V;x2/24V

Environmental parameters

Working temperature	-35°C to +55°C
Storage temperature	-35°C to +80°C
Humidity	10%-90% NC
Enclosure	IP30

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Model	VS1024N	VS2024N	VS3024N	VS4024N	VS5024N	VS6024N
Rated current	10A	20A	30A	40A	50A	60A
Rated voltage	12V/24V Auto					
Terminals	4mm ²	10mm ²	16mm ²	35mm ²	35mm ²	35mm ²
Net Weight	0.2kg	0.4kg	0.7kg	0.9kg	1.2kg	1.3kg
Working temperature	-35°C - +55°C					

Model	VS2048N	VS3048N	VS4048N	VS5048N	VS6048N
Rated current	20A	30A	40A	50A	60A
Rated voltage	12V/24V/36/48V Auto				
Terminals	16mm ²	35mm ²	35mm ²	35mm ²	35mm ²
Net Weight	0.7kg	0.9kg	1.2kg	1.3kg	1.4kg
Working temperature	-20°C - +55°C				