

PWM Solar charge controller

New ViewStar series



ViewStar series solar controller is designed for off-grid solar system, such as street light, solar home system or small power station etc. It has LCD display, reliable battery charging, full electronic protection, and programmable parameters.



Models:

- VS1024BN/ VS2024BN/ VS3024BN/ VS4524BN/ VS6024BN
10A,20A,30A,45A,60A
12/24V auto work
- VS2048BN/ VS3048BN/ VS4548BN/ VS6048BN
20A,30A,45A,60A
12/24/36/48V auto work

Features:

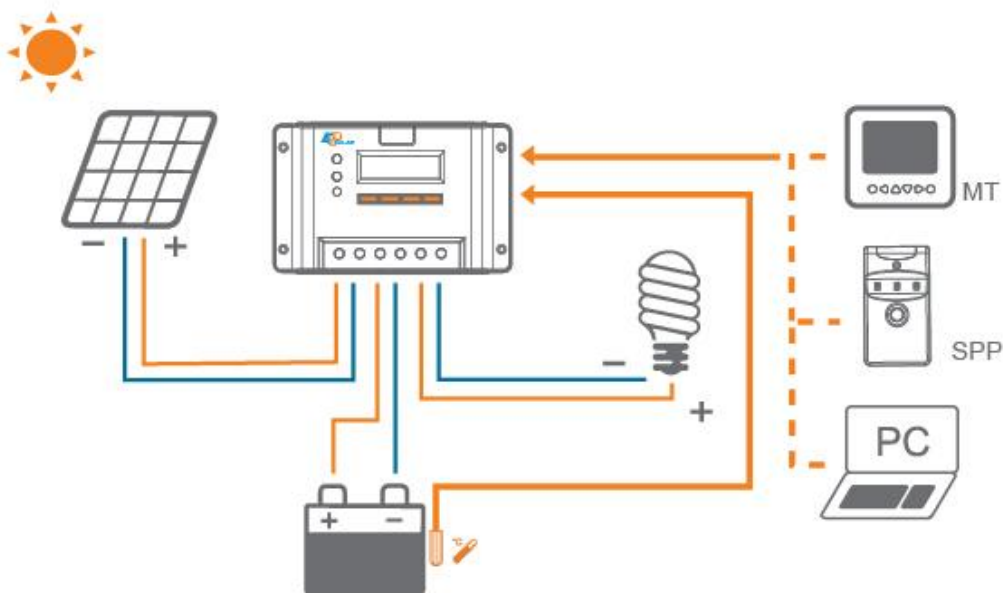
- Excellent EMC design
- 32 bit MCU with high speed
- High efficient Series PWM charging
- Four battery type options: Sealed, Gel, Flooded, and USER
- Intelligent lighting and timer control for solar lighting system
- 12 bit A/D high-precision sampling to ensure accuracy
- Use MOSFET as electronic switch
- 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
- Energy statistics function
- RS485 ports with MODBUS communication protocol
- Optional PC monitoring software and remote meter for real-time monitoring and battery management parameter setting
- Field upgradable firmware

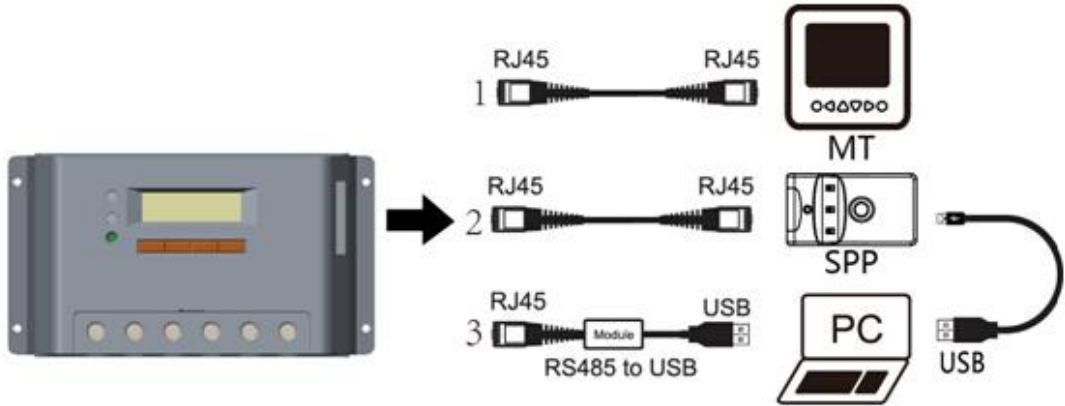


Electronic protections:

- PV short circuit protection
- Battery overcharge protection
- Battery reverse polarity protection
- Load short circuit protection
- PV reverse polarity protection
- Battery over discharge protection
- Load overload protection
- Overheating protection







Three methods to configure the controller:

1–Remote Meter, MT50

2–Super Parameter Programmer, One-key easily configure and apply to batch setting.

3–PC monitoring setting software “Solar Station Monitor

Optional accessories :

| | | | |
|------------------------------|--|---|--|
| | | | |
| <p>Remote meter MT50</p> | <p>Remote temperature sensor RTS300R47K3.81A</p> | <p>PC communication cable CC-USB-RS485-150U</p> | <p>Super parameter programmer SPP-01</p> |

PC software:



Technical specifications

| Model | VS1024BN | VS2024BN | VS3024BN | VS4524BN | VS6024BN |
|--------------------------------|--|--|----------|----------|----------|
| | | VS2048BN | VS3048BN | VS4548BN | VS6048BN |
| Nominal system voltage | 12/24V auto work | VS**24BN: 12/24V auto work VS**48BN: 12/24/36/48V auto work | | | |
| Rated battery current | 10A | 20A | 30A | 45A | 60A |
| Rated load current | 10A | 20A | 30A | 45A | 60A |
| Max. battery voltage | VS**24BN: 32V, VS**48BN:64V | | | | |
| Equalize charging voltage | Sealed: 14.6V, Flooded: 14.8V, User-defined: 9~17V | | | | |
| Boost charging voltage | Gel: 14.2V, Sealed: 14.6V, Flooded: 14.8V, User-defined: 9~17V | | | | |
| Float charging voltage | Gel /Sealed /Flooded: 13.8V, User-defined: 9~17V | | | | |
| Low voltage reconnect voltage | Gel /Sealed /Flooded: 12.6V, User-defined: 9~17V | | | | |
| Low voltage disconnect voltage | Gel /Sealed /Flooded: 11.1V, User-defined: 9~17V | | | | |
| Self-consumption | ≤15mA(12V); ≤10mA(24V); ≤9mA(36V); ≤8mA(48V) | | | | |
| Grounding | Common negative | | | | |
| Temp. compensation | -3mV/°C/2V | | | | |
| Communication | RS485 / RJ45 interface | | | | |

*** Technical data for 12V system at 25°C, twice in 24V system rate, triple in 36V system rate and quadruple in 48V system rate.**

| Model | VS1024BN | VS2024BN | VS3024BN | VS4524BN | VS6024BN |
|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|
| Overall dimension | 162x85x40mm | 162x100x50mm | 200x103x58mm | 201x109x59mm | 205x129x67mm |
| Terminals | 4mm ² | 10mm ² | 16mm ² | 35mm ² | 35mm ² |
| Net weight | 0.3kg | 0.4kg | 0.7kg | 0.8kg | 1.3kg |
| Enclosure | IP30 | | | | |

| Model | VS2048BN | VS3048BN | VS4548BN | VS6048BN |
|-------------------|-------------------|-------------------|-------------------|-------------------|
| Overall dimension | 200x103x58mm | 201x109x59mm | 205x119x67mm | 205x174x64mm |
| Terminals | 16mm ² | 35mm ² | 35mm ² | 35mm ² |
| Net weight | 0.7kg | 0.8kg | 1.2kg | 1.6kg |
| Enclosure | IP30 | | | |

| Environmental | |
|---------------------|---------------|
| LCD temperature | -20°C ~ +70°C |
| Working temperature | -25°C ~ +55°C |
| Humidity | ≤95% N.C. |



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