

# **PWM Solar charge controller**

## **ViewStar AU series**



The VS-AU controller is a common positive PWM charge controller with built in LCD display and USB port. The multiple load control modes enable it can be widely used on solar home system, traffic signal, solar street light, solar garden lamp, etc.



### **Models:**

VS1024AU, 10A, 12/24V auto work

VS2024AU, 20A, 12/24V auto work

VS3024AU, 30A, 12/24V auto work

VS4524AU, 45A, 12/24V auto work

VS6024AU, 60A, 12/24V auto work

### **Features:**

- PWM charging
- Battery type selectable: Sealed, Gel, and Flooded
- Informative black light LCD display
- Double USB design, Max. output 2.4A
- Multiple load control modes
- Energy statistics function
- Full power working at temperature range from -25 to 55 °C
- Adopt high quality, high reliability components of ST,IR and Infineon
- UL and VDE certified Nickel plated copper terminals, to ensure safe and solid connection
- Battery temperature compensation function
- Extensive Electronic protection

### Electronic protections:

- PV reverse polarity protection
- Battery over voltage protection
- Battery overheating protection
- Load short circuit protection
- Battery reverse polarity protection
- Battery over discharge protection
- Controller overheating protection
- Load overload protection



### Optional accessories:



RTS300R47K3.81A  
Remote temperature sensor (3m)

## Technical specifications:

CE RoHS

Model	VS1024AU	VS2024AU	VS3024AU	VS4524AU	VS6024AU
Nominal system voltage	12/24V auto work				
Battery input voltage range	9~32V				
Rated charge/discharge current*	10A	20A	30A	45A	60A
Max. PV open circuit voltage	50V				
Battery type	Sealed(Default) / Gel / Flooded /User				
Equalize charging voltage*	Sealed:14.6V/ Gel: No/ Flooded:14.8V/User:9-17V				
Boost charging voltage*	Sealed:14.4V/ Gel:14.2V/ Flooded:14.6V/User:9-17V				
Float charging voltage*	Sealed/Gel/Flooded:13.8V/User:9-17V				
Low voltage reconnect voltage*	Sealed/Gel/Flooded:12.6V/User:9-17V				
Low voltage disconnect voltage*	Sealed/Gel/Flooded:11.1V/User:9-17V				
Self-consumption	≤10mA/12V;≤18mA/24V; ≤14.5mA/36V; ≤17mA				
Temperature compensation coefficient	-3mV/°C/2V (25°C)				
Grounding	Common positive				
USB output	5VDC/2.4A				
Overall dimension	142x85x41.5 mm	160x94.9x49.3 mm	181x100.9x59.8 mm	194x118.4x63.8 mm	214x128.7x72.2 mm
Terminals	12AWG(4mm <sup>2</sup> )	8AWG(10mm <sup>2</sup> )	6AWG(16mm <sup>2</sup> )	6AWG(16mm <sup>2</sup> )	3AWG(25mm <sup>2</sup> )
Net weight	0.22kg	0.35kg	0.55kg	0.76kg	1.02kg
Enclosure	IP30				
Working environment temperature	-25°C~+55°C(Product can work continuously at full load)				
Humidity range	≤95% (N.C.)				

- Above the parameters are in 12V system at 25°C, twice in 24Vsystem
- Rated charge/discharge current temp. range is -25 to 55 °C



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