

# 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
- VS3048AU, 30A, 12/24/36/48V auto work
- VS4548AU, 45A, 12/24/36/48V auto work
- VS6048AU, 60A, 12/24/36/48V 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
			VS3048AU	VS4548AU	VS6048AU
Nominal system voltage	VS**24AU 12/24V auto work		VS**48AU 12/24/36/48V auto work		
Battery input voltage range	VS**24AU 9~32V		VS**48AU 9V~64V		
Rated charge/discharge current*	10A	20A	30A	45A	60A
Max. PV open circuit voltage	VS**24AU 50V		VS**48AU 96V		
Battery type	Sealed(Default) / Gel / Flooded				
Equalize charging voltage*	Sealed:14.6V/ Gel: No/ Flooded:14.8V				
Boost charging voltage*	Sealed:14.4V/ Gel:14.2V/ Flooded:14.6V				
Float charging voltage*	Sealed/Gel/Flooded:13.8V				
Low voltage reconnect voltage*	Sealed/Gel/Flooded:12.6V				
Low voltage disconnect voltage*	Sealed/Gel/Flooded:11.1V				
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
			0.58kg	0.88kg	1.04kg
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, triple in 36V system and quadruple in 48V system.

•Rated charge/discharge current temp. range is -25 to 55 °C



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