

Technical specification

# Solar PWM Controller



[PRODUCT WEBPAGE](#)



## 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, 10 A, 12/24 V auto work
- VS2024AU, 20 A, 12/24 V auto work
- VS3024AU, 30 A, 12/24 V auto work
- VS4524AU, 45 A, 12/24 V auto work
- VS6024AU, 60 A, 12/24 V auto work
- VS3048AU, 30 A, 12/24/36/48 V auto work
- VS4548AU, 45 A, 12/24/36/48 V auto work
- VS6048AU, 60 A, 12/24/36/48 V auto work

## Features:

- PWM charging
- Battery type selectable: Sealed, Gel, and Flooded
- Informative black light LCD display
- Double USB design, Max. output 2.4 A
- 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 (3 m)



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## Technical specifications:

Model	VS1024AU	VS2024AU	VS3024AU VS3048AU	VS4524AU VS4548AU	VS6024AU VS6048AU
Nominal system voltage		VS** 24AU 12/24 V auto work	VS**48AU 12/24/36/48 V auto work		
Battery input voltage range		VS** 24AU 9~32 V	VS**48AU 9 V ~ 64 V		
Rated charge/discharge current*	10 A	20 A	30 A	45 A	60 A
Max. PV open circuit voltage		VS**24AU 50 V	VS**48AU 96 V		
Battery type		Sealed(Default) / Gel / Flooded			
Equalize charging voltage*		Sealed: 14.6 V/ Gel: No/ Flooded: 14.8 V			
Boost charging voltage*		Sealed: 14.4 V/ Gel: 14.2 V/ Flooded: 14.6 V			
Float charging voltage*		Sealed/Gel/Flooded: 13.8 V			
Low voltage reconnect voltage*		Sealed/Gel/Flooded: 12.6 V			
Low voltage disconnect voltage*		Sealed/Gel/Flooded: 11.1 V			
Self-consumption		≤ 10 mA/12 V; ≤ 18 mA/24 V; ≤ 14.5 mA/36 V; ≤ 17 mA			
Temperature compensation coefficient		-3 mV/°C / 2 V (25 °C)			
Grounding		Common positive			
USB output		5 VDC/2.4 A			
Overall dimension	142 x 85 x 41.5 mm	160 x 94.9 x 49.3 mm	181 x 100.9 x 59.8 mm	194 x 118.4 x 63.8 mm	214 x 128.7 x 72.2 mm
Terminals	12AWG (4 mm <sup>2</sup> )	8AWG (10 mm <sup>2</sup> )	6AWG (16 mm <sup>2</sup> )	6AWG (16 mm <sup>2</sup> )	3AWG (25 mm <sup>2</sup> )
Net weight	0.22 kg	0.35 kg	0.55 kg 0.58 kg	0.76 kg 0.88 kg	1.02 kg 1.04 kg
Enclosure	IP30	IP30	IP30	IP30	IP30
Working environment temperature		-25 °C ~ +55 °C (Product can work continuously at full load)			
Humidity range	≤ 95 % (N.C.)	≤ 95 % (N.C.)	≤ 95 % (N.C.)	≤ 95 % (N.C.)	≤ 95 % (N.C.)

Above the parameters are in 12 V system at 25 °C, twice in 24Vsystem, triple in 36 V system and quadruple in 48 V system.  
Rated charge/discharge current temp. range is -25 to 55 °C.



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