

## Overview

The VS AU controller is a PWM charge controller with built in LCD display that adopts the most advanced digital technique. The multiple load control modes enable it can be widely used on solar home system, traffic signal, solar street light, solar garden lamp, etc.



## Features

- Adopt high quality components of ST,IR and Infineon, make sure product using lifespan
- Terminals have UL and VDE certification, the product is more safer and more reliable
- Controller can work continuously at full load within the environment temperature range from -25 to 55 °C
- 3-Stage intelligent PWM charging: Bulk, Boost/Equalize, Float
- Support 3 charging options: Sealed, Gel, and Flooded
- LCD display design, dynamically displaying device's operating data and working condition
- Double USB design, the power supply charge for electronic equipment
- With humanized button settings, operation will be more comfortable and convenient
- Multiple load control modes
- Energy statistics function
- Battery temperature compensation function
- Extensive Electronic protection



Model	VS1024AU VS2024AU VS3024AU VS3048AU VS4524AU VS4548AU VS6024AU VS6048AU							
Nominal system voltage	12/24VDCAuto			12/24/36/48 VDC Auto	12/24VDC Auto	12/24/36/48 VDC Auto	12/24VDC Auto	12/24/36/48 VDC Auto
Battery input voltage range	9V ~ 32V			9V ~ 64V	9V ~ 32V	9V ~ 64V	9V ~ 32V	9V ~ 64V
Rated charge/discharge current	10A@55°C	20A@55°C	30A@55°C		45A@55°C		60A@55°C	
Max. PV open circuit voltage	50V			96V	50V	96V	50V	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	≤9.2mA/12V; ≤11.7mA/24V; ≤14.5mA/36V; ≤17mA/48V							
Temperature compensation coefficient	-3mV/°C/2V ( 25°C )							
Charge circuit voltage drop	≤0.29V							
Discharge circuit voltage drop	≤0.16V							
LCD temperature range	-20°C ~ +70°C							
Working environment temperature	-25°C ~ +55°C(Product can work continuously at full load)							
Relative humidity	≤95%, N.C.							
Enclosure	IP30							
Grounding	Common Positive							
USB output	5VDC/2.4A(Total)							
Overall dimension(mm)	142x85x41.5	160x94.9x49.3	181x100.9x59.8		194x118.4x63.8		214x128.7x72.2	
Mounting dimension	130x60mm	148x70mm	172x80mm		185x90mm		205x100mm	
Mounting hole size	Φ4.5mm		Φ5mm		Φ5mm		Φ5mm	
Terminals	4mm <sup>2</sup> /12AWG	10mm <sup>2</sup> /8AWG	16mm <sup>2</sup> /6AWG		16mm <sup>2</sup> /6AWG		25mm <sup>2</sup> /4AWG	
weight	0.22kg	0.35kg	0.55kg	0.58kg	0.76kg	0.88kg	1.02kg	1.04kg

※ Above the parameters are in 12V system at 25°C, twice in 24Vsystem, triple in 36V system and quadruple in 48V system