

SOLAR CHARGER CONTROLLER

PWM
VS-AU Series

10A - 60A



The VS-AU controller is a common positive PWM charge controller with built in LCD 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.

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°C 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

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

Technical specifications :



| 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 | 142x85x 41.5 mm | 160x94.9x 49.3 mm | 181x100.9x 59.8 mm | 194x118.4x 63.8 mm | 214x128.7x 72.2 mm |
| Terminals | 12AWG(4mm ²) | 8AWG(10mm ²) | 6AWG(16mm ²) | 6AWG(16mm ²) | 3AWG(25mm ²) |
| 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 24V system, triple in 36V system and quadruple in 48V system.

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