

ViewStar series solar controller



Features:

- 32 bit MCU with high speed and high performance
- 12 bit A/D high-precision sampling to ensure accuracy of sampling
- Nominal system voltage automatic recognition
- Adopt graphics dot-matrix LCD screen and HMI with 4 buttons, complete menu display and operation
- Humanized browsing interface, undertake every kinds of operating conveniently
- Full field control parameter and diversified load control mode setting and modification
- Gel, Sealed and Flooded battery type option
- Programmable parameters
- Real time clock display
- High efficient Series PWM charging, increase the battery lifetime and improve the solar system performance
- Use MOSFET as electronic switch, without any mechanical switch
- Widely used, automatically recognize day/night
- Adopt temperature compensation, correct the charging and discharging parameters automatically and improve the battery lifetime
- Electronic protection: Overheating, over charging, over discharging, overload, and short circuit.
- Reverse protection: any combination of solar module and battery
- With timer and sensor

Technical parameters:

Model Number	VS3024N		
Electronical parameters			
Norminal system voltage	12/24V auto		
Maximum PV Voltage	48V		
Rated battery current	30A		
Charging circuit voltage drop	≤0.24V		
Discharging circuit voltage drop	≤0.16V		
Self consumption	≤44mA		
Communication	TTL232 level/RJ45 interface		
Remote Temp. sensor	2ERJ-3.81		
Ground	Negative		
Terminals	16mm2		
Weight	0.7kg		
Charging Parameters			
Battery type	Gel	Sealed	Flooded
Over Voltage Disconnect Voltage	16V; ×2/24V (15-17V adjustable)		
Charging Limit Voltage	15.5V; ×2/24V(14-16V adjustable)		
Over Voltage Reconnect Voltage	15V; ×2/24V(14-16V adjustable)		
Equalize Charging Voltage	NO	14.6V ;x2/24V (14.2-15.2V adjustable)	14.8V ;x2/24V (14.2-15.2V adjustable)
Boost Charging Voltage	14.2V ;x2/24V (13.8-15V adjustable)	14.4V ;x2/24V (13.8-15V adjustable)	14.6V ;x2/24V (13.8-15V adjustable)
Float Charging Voltage	13.8V; ×2/24V (13.2-14.2V adjustable)		
Boost Reconnect Charging Voltage	13.2V; ×2/24V (12.7-13.5V adjustable)		
Low Voltage Reconnect Voltage	12.6V; ×2/24V(12-13.2V adjustable)		
Under Voltage Warning Reconnect Voltage	12.2V; ×2/24V (11.8-12.6V adjustable)		
Under Voltage Warning Voltage	12V; ×2/24V (11.6-12.4V adjustable)		
Low Voltage Disconnect Voltage	11.1V; ×2/24V (10.5-11.8V adjustable)		
Discharging Limit Voltage	10.8V; ×2/24V (10.5-11V adjustable)		
Equalize duration	NO	2 hours	
Boost duration	2 hours		
Temperature Compensation Coefficient (TEMPCO)*	-30mV/°C/12V (25°C ref)		
Working temperature	-20°C~ +55°C		
Storage temperature	-30°C~ +80°C		
Enclosure	IP30		

Technical data at 25°C

All the parameter is default value.