

# SOLAR CHARGE CONTROLLER

SPECIALIZED FOR SOLAR PV POWER SYSTEM



**RG-5 SERIES**



## RG 5 series

Solar controller is designed for off-grid solar system , such as street light , solar home system and small Solar farm etc . It has LCD display, reliable battery charging , full electronic protection, and programmable parameters.



## FEATURES

- Nominal system voltage automatic recognition
- Microcontroller digital accuracy , High efficient Series PWM charging , increase the battery lifetime and improve the solar system performance
- Adopt graphics dot-matrix LCD screen and HMI (human-machine interface) with 2 buttons , intergrated menu displaying and operation
- Humanized design of browser interface, undertake every operating conveniently
- Full control parameters setting and modification, diversified load control mode Gel, Sealed and Flooded battery type option
- Adopt temperature compensation , correction algorithm for charging and discharging parameters automatically and improve the battery lifetime

Model	RG-501	RG-505	RG-502	RG-505	RG-502	RG-502		
System Voltage	12V/24V automatic recognition					48V		
Max Charge Current	10A	20A	30A	50A	60A	30A	50A	60A
Max Discharge Current	10A	20A	30A	50A	60A	30A	50A	60A
Max Solar Input Voltage	55V					100V		
Max Voltage for Battery	40V					64V		
Boost Voltage	14.0~15.0V/28.0~30.0V (25°C) (programmable)					56~60V (25°C) (programmable)		
Equalization Voltage	14.0~15.5V/28.0~31.0V (25°C) (Liquid) (programmable)					56~62V (25°C) (liquid) (programmable)		
Float Voltage	13.0~14.5V/26.0~29.0V (25°C) (programmable)					52~58V (25°C) (programmable)		
Over Voltage Protection Voltage	16.5/33.0V					66.0V		
Charge Type	PWM							
Low Voltage Reconnect Voltage(LVR)	Gel /Sealed /Flooded: 12.6V, User-defined: 9~17V							
Low Voltage Disconnect Voltage(LVD)	Gel /Sealed /Flooded: 12.6V, User-defined: 9~17V							
Battery Type	Liquid, Gel							
Nominal Capacity	10Ah~9990Ah (programmable)							
Temperature Compensation	-4.17mV/K per cell (boost, equalization), -3.33mV/K per cell (float)							
Max. Wire Size	25mm <sup>2</sup>							
Self-Consumption	13.8mA							
Ambient Temperature	-10~+60°C							
Degree of Protection	IP32							
Overall Dimension(mm)	168X92X41.5	168X92X41.5	192X108X41.5	200.1X127X55.3	200.1X127X55.3	192X108X41.5	200.1X127X55.3	200.1X127X55.3
Terminals(mm <sup>2</sup> )	4	10	16	35	35	16	35	35
N.W(g)	320	320	410	690	690	410	690	690