

# SOLAR CHARGE CONTROLLER

SPECIALIZED FOR SOLAR PV POWER SYSTEM

**MPPT**

RG-HL SERIES



## Features:

- The efficiency is up to 99.5%.
- Intelligent LCD display with multi-function
- True Over Temperature Protection
- New and original electronic components
- Internal circuit lines and signal lines are based on plug-pull blocks, not welding
- Perfect protection against low voltage, over voltage, short circuit, over load and over temperature etc.

Model		RG-HL 20A	RG-HL 30A	RG-HL 40A	RG-HL 50A	RG-HL 60A	RG-HL 80A	RG-HL 100A	RG-HL 120A
MPPT Range @ Operating Voltage	12V System	18VDC ~ 80 VDC							
	24V System	30VDC ~ 100 VDC							
	36V System	40VDC~100VDC							
	48V System	60VDC ~ 150 VDC							
	96V System	120VDC~200VDC							
Maximum PV Array Open Circuit Voltage	12V/24V/36V/48V/96V	12-48VDC (150VDC) /96VD (200VDC)							
Maximum PV Array Power	12V System	280W	420W	570W	700W	900W	1140W	1400W	1800W
	24V System	550W	840W	1130W	1400W	1700W	2260W	2800W	3400W
	36V System	840W	1260W	1710W	2100W	2700W	3420W	4200W	5400W
	48V System	1100W	1650W	2270W	2800W	3400W	4540W	5600W	3800W
	96V System	2240W	3360W	4560W	5600W	7200W	9120W	11200W	14400W
Connected Battery Type	12V/24V/36V/48V/96V	Sealed lead acid, Gel, Nicad battery (User customization )							
Rated current	12V/24V/36V/48V/96V	20A	30A	40A	50A	60A	80A	100A	120A
Maximum Charging Current	12V/24V/36V/48V/96V	22A	32A	42A	52A	62A	82A	102A	122A
Maximum Efficiency	12V/24V/36V/48V/96V	≥98%							
Temperature compensation	12V/24V/36V/48V/96V	3mV/°C							
Charging Method	12V/24V/36V/48V/96V	Three stages: constant current ( MPPT ), equalizing charge, floating charge							
High temperature protection		90%							
LCD Display	nel indicating solar power, load level, battery voltage/capacity, charging current, and fault conditions								
LED Display	Charging indication, direct current output indication								
PC host computer ( communication port )	Rs485 (optional)								
Humidity	0 to 90%RH( No Dew )								
Operating Temperature	-20°C to 60°C								
Storage Temperature	-40°C to 70°C								
Altitude	0 to 3500 m								
Product Size, L x W x H (mm)	212x190x85			313x230x91			380x358x140		
Carton Size, L*W*H (mm)	315x235x150			355x270x135			440x418x193		
Net Weight (kg)	2			3.2			9.85		
Gross Weight (kg)	2.25			3.6			12		
Type of Mechanical Protection	IP32								