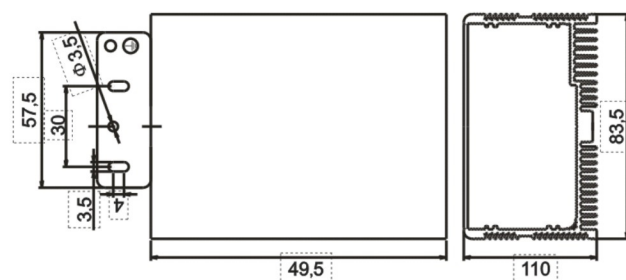


SDH Series Solar Grid hybrid charge controller & LED Dimmer

Product Introduction

SDH Series, is a Solar Grid hybrid charge controller built in LED driver. Used for solar grid hybrid system. Especially for solar hybrid LED lighting and dimmer function be needed. Full waterproof design up to IP67. The control parameters can be programmed by using infrared remote (RC-3). Grid power first or Solar power first could be selective.



Product Family

SDH-12100-60W, SDH-12100-100W, SDH-24100-60W, SDH-24100-100W

Main Features

- Grid or Solar power first could be selective according to client's need before shipping
- City Grid can power load directly when Battery was broken or be stolen
- 6 Time Periods Load Control (Timer+Dimmer).
- Control parameters can be setting via RC-3 infrared remote.
- waterproof IP67
- max output efficient of 96%
- Aluminum housing for better cooling
- 40~+55°C wide temperature range

Protections

- PV reverse polarity/overvoltage alarm protection
- City Grid overload protection
- Battery overcharge/over discharge/reverse polarity protection
- Battery temperature too high or too low protection, particularly suitable integrated with lithium-ion battery
- Overload/Short circuit/Open circuit/Over Voltage protection
- Over Temperature protection

Technical Specifications

Solar Grid hybrid charge controller & LED Dimmer				
Model	SDH-12100-60W	SDH-24100-60W	SDH-24100-100W	
System voltage	12V	24V		
LED Dimmer parameter				
Max output power	60W	60W	100W	
Max.boost output voltage	17~55V	27~55V		
Max.output current	3.3A			
LED Dimmer range	0~100%			
Current step	50mA			
Smart mode	4 types save energy mode,2 types motion sensor function(optional)			
Timer	6 Time period output control			
Typical efficiency	92~96%			
Accuracy Current	3%,when take 80% rated power load can reach 1%			
Over Load Capability	105% Output Rater Power			
Grid AC/DC parameters				
Grid input AC	AC 185V~265V; 50HZ~60HZ			
inter DC output voltage	14.5V	29V		
Max.DC charge current	7A	3.5A		
PV parameter				
Max. PV Output power	255W12V/510W24V			
Max.PV open circult voltage	65V			
Max. PV charge current	10A			
Battery parameter				
Type of Battery	AGM	GEL	Li	Custom
Max.Battery voltage	34V			
Main charge voltage*	14.2V	14.4V	Custom	/
Boost charge voltage*	14.6V	14.8V		10~20V
Float charge voltage*	13.6V			10~20V
Equalization charge voltage*	14.6V	14.8V		/
Over Discharge voltage*	11.1V	11.0V		8~20V
Reconnect voltage*	12.6V	13.0V		10~20V
Temp.compensation	4mV/℃/2V		/	/
Others				
External Communication	RS485/2400pbs, Modbus (optional)			
Self-consumption	12mA	17mA		
Low voltage protect	30% Energy			
Reduce output Term.	85℃			
Over Term.	100℃			
Dimensions (LxWxH)	130x83.5x49.5 mm			
Net weight	0.9kg			
Enclosure	IP67			
Working temperature	-40~+55℃			
*Note: Technical data for 12V system at 25℃, x2 in 24V system				

Application

