

Solar & Grid charge controller with built-in LED Driver

GS-CPLI series



The GS-CPLI series solar & grid charge controller combines grid, solar controller and boost LED driver into one unit, using solar energy and grid complementary to charge for battery, and solar charge is preferred, maximize the use of clean energy. With high power supply rate, high reliability, especially for the application for LED lamp which requires dimmer function.

Models:

- GS10120560CPLI, 10A 12V, Max. output power: 60W
- GS10121060CPLI, 10A 12V, Max. output power: 60W
- GS102405120CPLI, 10A 24V, Max. output power: 120W

Features:

- The controller provide power supply to the load from solar or grid. Solar first and grid as backup
- Battery can be charged by grid when battery voltage is low and lack in solar
- Max. output efficiency of 96%
- Digital precision constant current control
- Flexible dimming function(0-100%)
- Battery temperature compensation function
- Battery type selection: GEL, Sealed (default), Flooded, and User(programmable).
- Aluminum housing for better cooling
- Fully encapsulated PCB, IP68 protection
- IR communication, no button design
- Parameter setting via mobile APP(android only), RC-02 and SPP-02

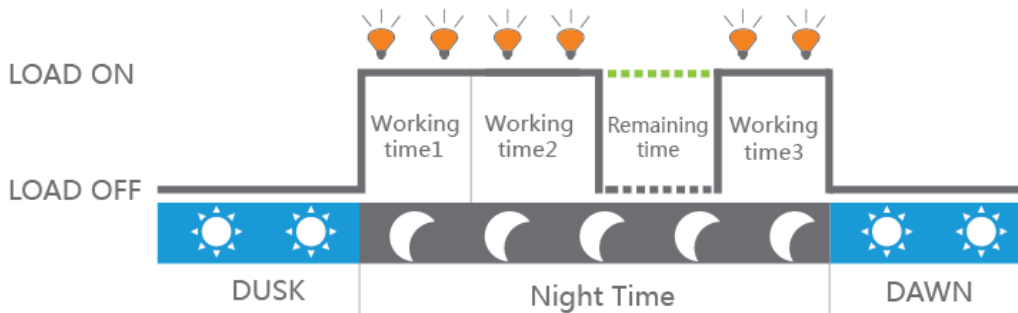
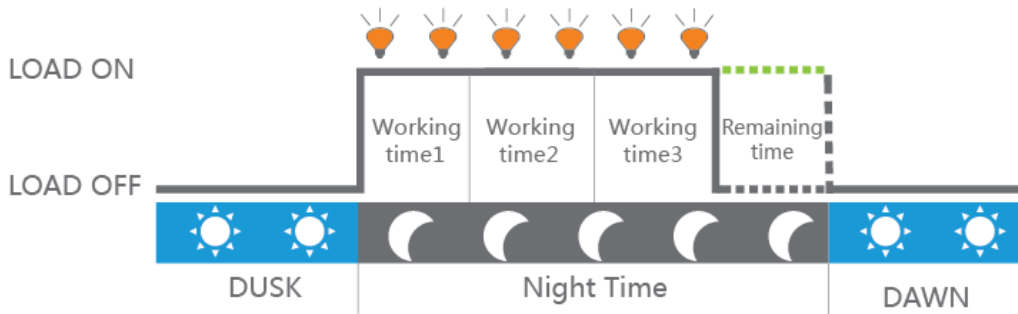


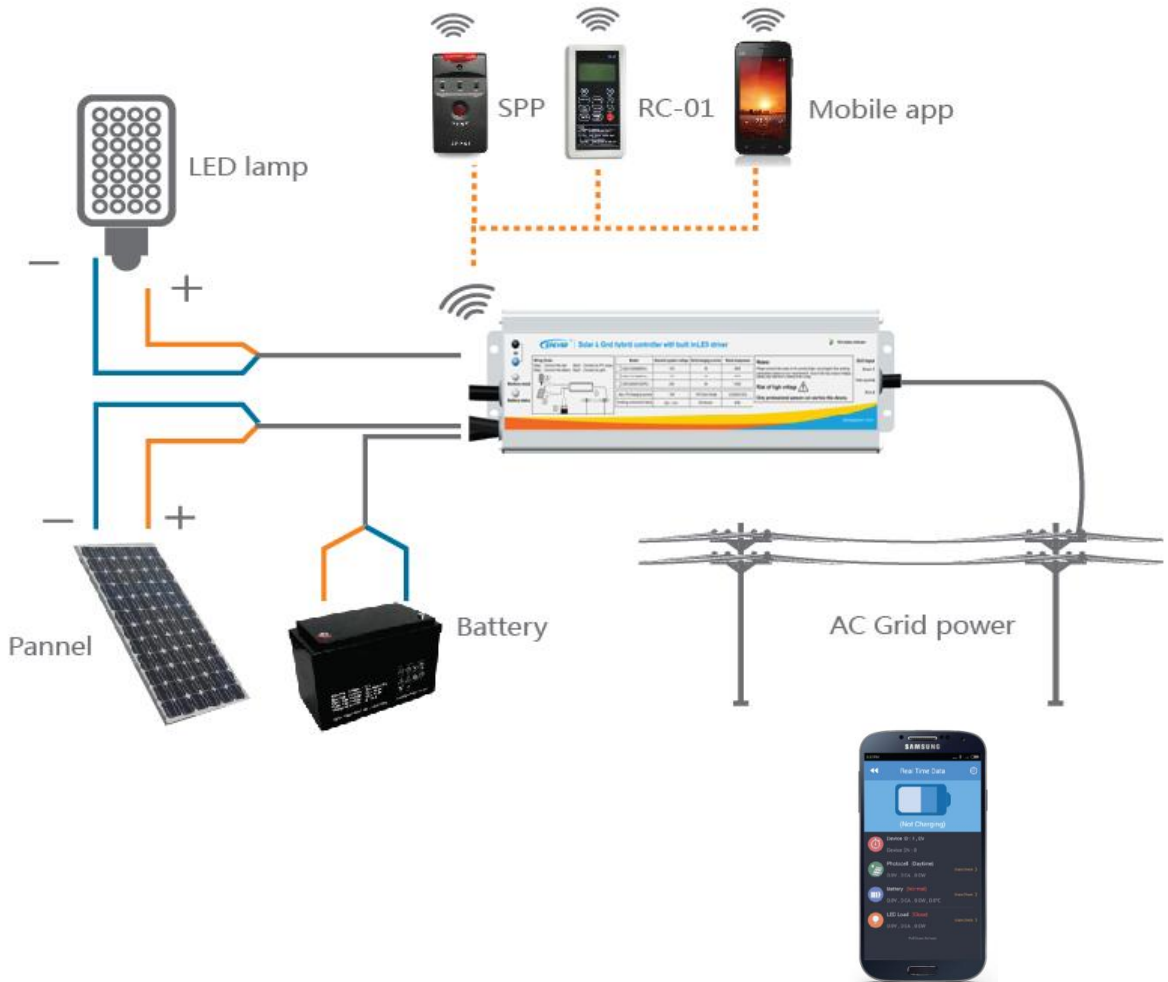
Electronic protections:

- PV reverse polarity protection
- Battery over discharge protection
- Battery reverse polarity protection
- Battery over voltage protection
- Battery overheating protection
- Load short circuit protection

Load working mode:

- Manual Control
- Light ON/OFF (Default)
- Light ON + Timer
- Time Control





* Free download from website for APP.

Optional accessories:

<p>SPP-02 Super parameter programmer</p>	<p>RC-01 Infrared Communication Remoter</p>	<p>IAM (Ir-Android-Micro) For mobile APP</p>

Technical Specifications:

CE RoHS

Model	GS10120560CPLI	GS10121060CPLI	GS102405120CPLI
Nominal system voltage	12VDC	12VDC	24VDC
Max. PV charging current	10A	10A	10A
Max. grid charging current	5A	10A	5A
Grid charging voltage	13.3V		26.6V
Max. PV open circuit voltage	25V		50V
Battery input voltage range	9V~16V		18V~32V
Max. output power	60W/12V		120W/24V
Max. output Current	4.0A		4.0A
Output voltage range	(Max. Battery Voltage +2V)~60V		
Load open circuit voltage	60V		
Battery type	Sealed(Default) / Gel / Flooded /User		
Equalize charging voltage*	Sealed: 14.6V, Flooded: 14.8V, User: 9~17V		
Boost charging voltage*	Gel: 14.2V, Sealed: 14.4V, Flooded: 14.6V, User: 9~17V		
Float charging voltage*	Gel /Sealed /Flooded: 13.8V, User: 9~17V		
Low voltage reconnect voltage*	Gel /Sealed /Flooded: 12.6V, User: 9~17V		
Low voltage disconnect voltage*	Gel /Sealed /Flooded: 11.1V, User: 9~17V		
Grid input range	AC230V ± 15%, 50/60HZ		
Maximum output efficiency	96%		
Output current control accuracy	≤30mA		
Self-consumption	≤3W		
Temp. compensation coefficient	-3mV/°C/2V		
Communication	IR communication		
Overall dimension	292x81x49mm		
Power cable	PV/BAT: 14AWG(2.5mm ²)/LOAD: 18AWG(1.0mm ²)/ AC: 19AWG (0.75mm ²)		
Net weight	1.8kg		
Enclosure	IP68 (1.5m,72h)		
Working environment temperature	-25°C~+55°C		

* Technical data for 12V system at 25°C, twice in 24V system.

* Programmable voltage value by SPP-02 , RC-01 and APP.



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