

PH1607 Smart Solar Charger w/ LED light driver controller

Description

The PH1607 is the worldwide first solution that integrated the solar charger & LED driver in the same controller.

In the day time, the Solar charger enable the MPPT(Maximum Power Point Tracking) technology to guarantee the best energy harvest. In the night time, the same power stage, playing as the LED driver, reversely boost the battery energy to drive LED with dimming control. Also the proprietary NEVER DARK Technology will calculate the battery residual energy vs. the preset LED current with lighting time & thus may reduce the LED current to make sure the battery never over discharged however the LED can still light . In system of view, the PH1607 can accept the PV open-circuit voltage up to 40V & the power is up to 300W. There are 2 outputs, one is battery voltage, the other is LED driver. The maximum voltage for LED driver is 40V & the maximum LED power is 100W. The PH1607 has the Bluetooth wireless communication option, which can be used to diagnose the PH1607 by hand phone. Or LORA for street light management.

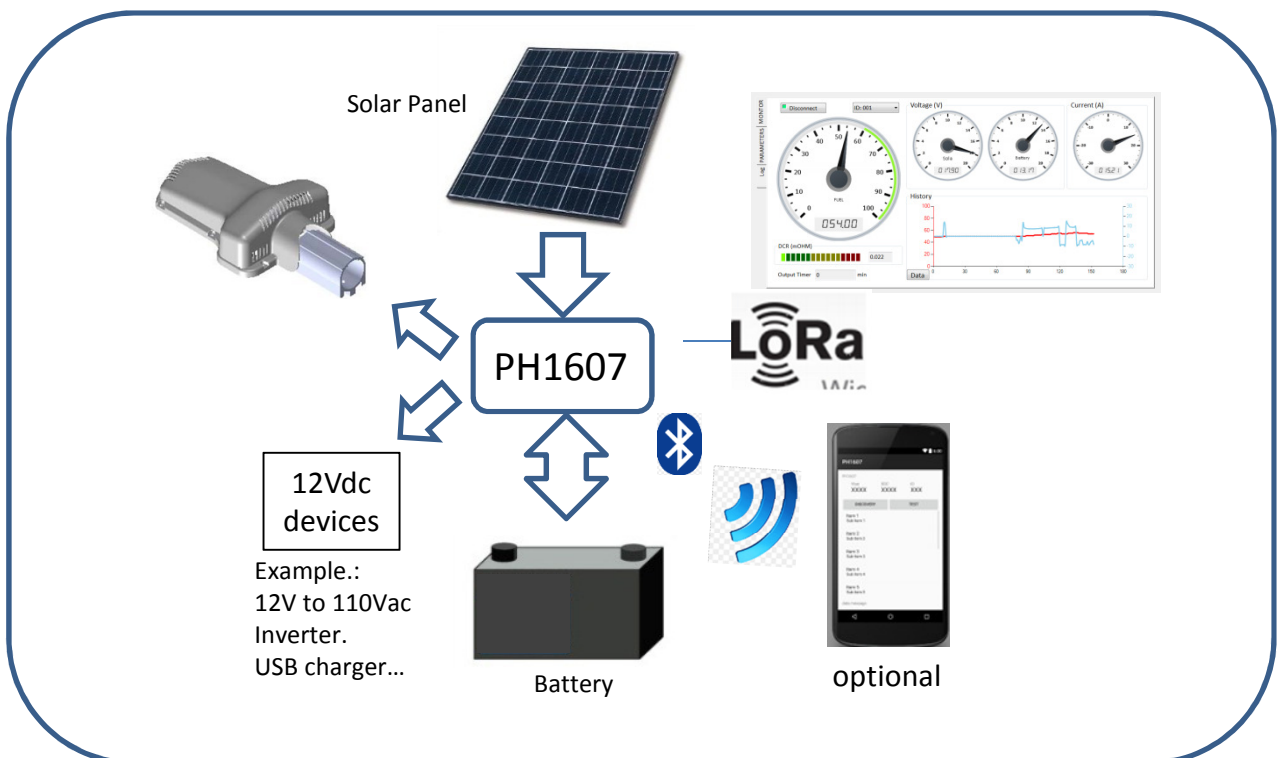
Feature :

- A. SOC, State Of Charge for Lead-Acid battery & Li-On battery .
- B. Programmable output timer
- C. Programmable output current profile.
- F. Avoid over charge/discharge scheme
- G. Charge / discharge current limited
- I. Wireless communication(Optional).
- J. Android APP available

Applications:

1. Portable solar devices
2. Solar street light system

Confidential



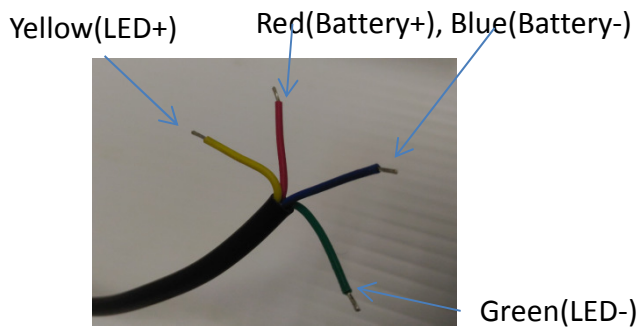
Connections

1. Solar input(MP4 connector)



2. Output

3. Battery connector



Typical application

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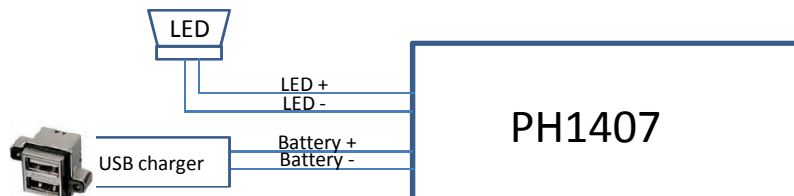
1. Solar street Lamp



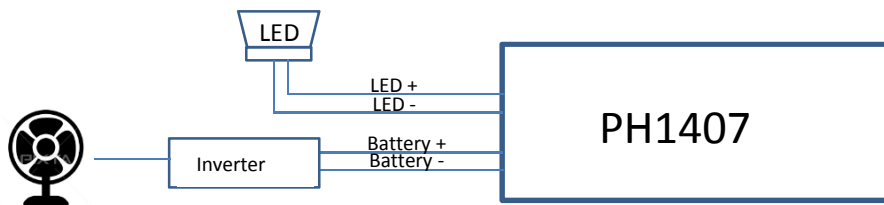
Features :

1. Output controlled by battery energy(not voltage) ensure the battery life.
2. Simple meter for battery fuel gauge display
3. Remote monitoring by Bluetooth or RS485.
4. Output current & timer can be simply set by rotor switcher on panel.
5. Never Dark Technology
6. Hand phone diagnose tool.

2. Solar street Lamp with USB charger



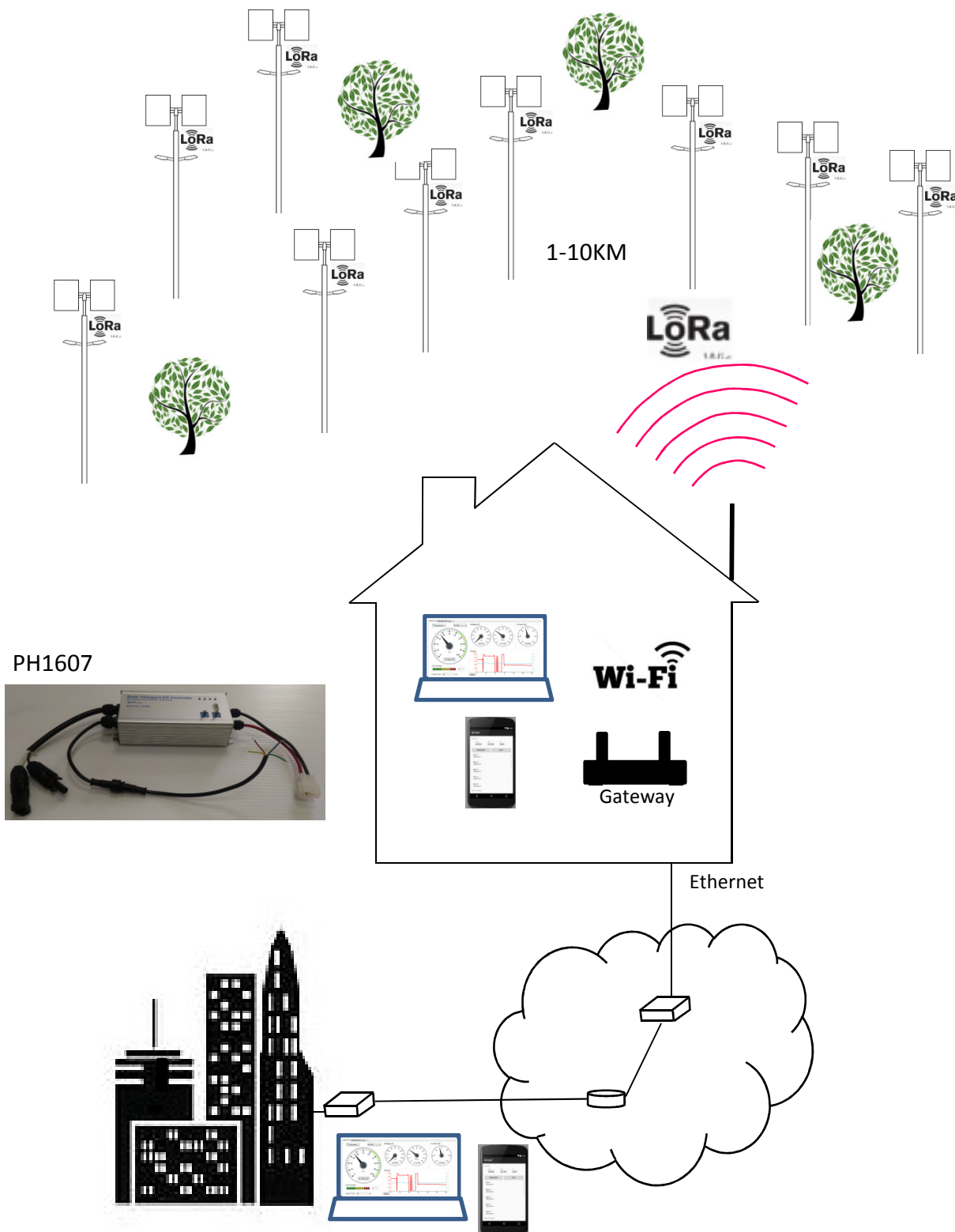
3. Solar street Lamp with 110/220Vas



Applications

Smart solar-LED street lamp

1. No energy consume
2. Complete wireless --- Easy infrastructure
3. Reliable & low cost



Solar Street Light

