All-in-One Solar / Utility Power Bank

Key Features

- Easy to install, easy to use
  - Connecting solar source then AC power is ready.
  - Utility backup mode.
  - All devices are included, All-in-One design.
- 4 kWh battery pack equipped
  - LiFePO4 (LFP) battery with BMU
- 4 kW Solar port, 3 kW / 3 kVA off-grid inverter
  - Minimum 4 pcs of PV module in series (V_{mp} > 120V)
- Solar MPPT / Ulility charging capability
- Models:

model	Solar	Battery	Inverter
443	4 kW	4 kWh	3 kVA
483		8 kWh	

Detail Features

Electrical Data and Safety	
Solar PV input / MPPT Range	4 kW; Voc 500Vmax / 120 ~ 450VMPPT
Quantity of Solar Port	One
Solar MPPT charger	24V 142A
Inverter	3 kW / 3 kVA, 230V 50 / 60Hz
Max. Current of AC Output	13A, single phase
Battery	LiFePO4, 25.6V 160Ah (4.096 kWh)
Battery Charge Current (max.)	60A max., default 30A
Protection	IP54, OV, LV, OC, SC, OL
Operation Humidity	4 % to 90 %
Operation Temperature	+5°C to +45°C
Mechanical Data	
Housing	Painted steel
Cooling	Fan, on/off by temperature sensor
Body Dimension (H x W x D; mm)	910 x 610 x 356
Net Weight (Kg)	TBC
Others	
Communication	RS-232
Battery SoC indicater	optional external display

* Specifications are subject to be changed without notice

The All-in-One Solar / Utility Power Bank is designed to reduce difficulty of installation of an energy storage system for user. User to connect solar string to solar port of the Power Bank, plug on ac appliances to the AC outlet on the Power Bank then able to enjoy the energy from green.

It needs several hours to bring a deep discharged battery back to full, depends on the sun irrediation strength and quantity of PV modules has been installed. User is able to use solar energy during the battery charging period. Utility charging automatically enable when energy of battery running low. It can work even without PV modules, only charging by utility is workable.

User can ask to equip one extra 4 kWh battery pack when purchasing to get total 8 kWh battery capacity.

* MIND:
  - DO NOT connect extra battery to the existing one by user.
  - DO NOT connect new battery to one which already running a while.
  - DO NOT modify internal wiring or parameters setting which will breach warranty.
* Inductive Load, such as motor, pump or washing machine takes several times start-up current. It may shutdown system.

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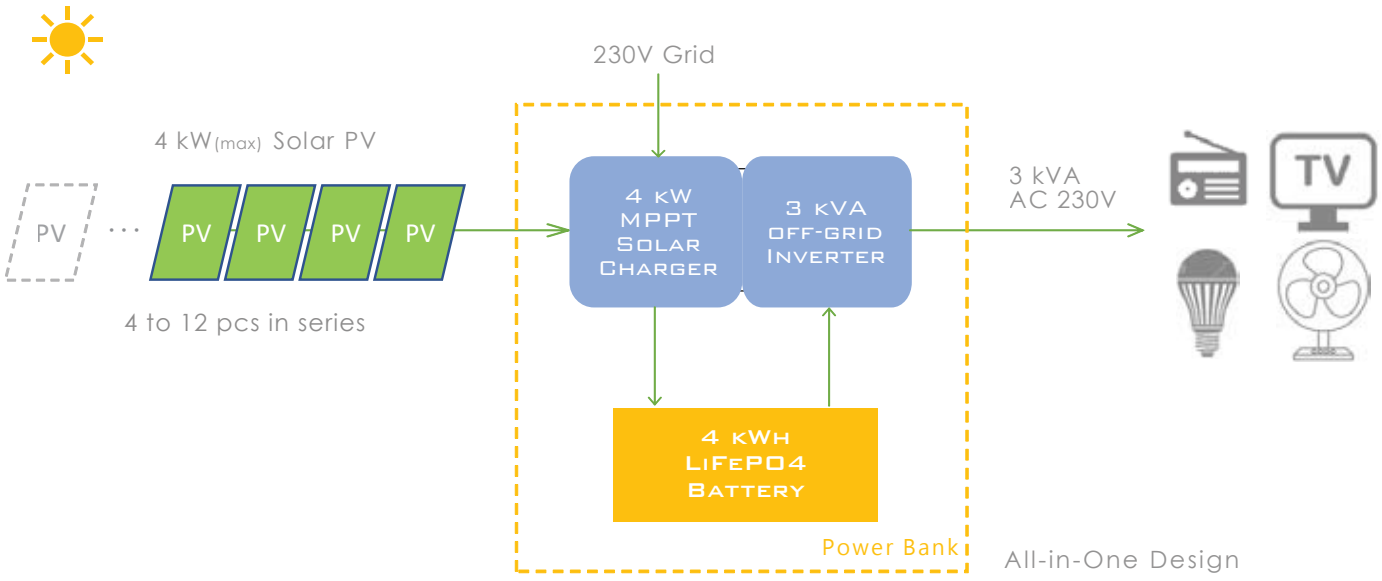
A drawing of system configuration



Company profile

Can Solar Inc. has established in year 2012, focus on innovative products for solar installations and renewable energy, such as the world unique Solar Combiner Boxes, Solar inline Blocking Diode. In year 2017 we extend our step into solar storage system, specially on off-grid for remote area and utility unstable area.

To summarize, Can Solar Inc. provides below services:

- All-in-One Solar / Utility Power Bank (Energy Storage System; ESS)
  All-in-one machine, included:
  4 kW solar port incl. MPPT charger, 3 kVA off-grid inverter, and 4 kWh or 8 kWh LiFePo4 battery pack(s). To connect solar panels then AC power is ready. Simple and easy for installation and using.

- Solar Combiner Boxes (solar DC combiner)
  To combine two solar strings into one output, to solar inverter with, IP65 water resistant, UL94V-0 flame-proof, NEMA 4X anti-corrosion & UV resistant. Each solar port can carry up to 1,000V 16A.

- Solar inline Blocking Diode
  Rated 12A
  IP67 water resistant, UL94V-0 flame-proof
  Aluminum cast enclosure to support excellent heat dissipation

unit: mm

Product Photo & Dimension

Battery pack behind the mounting panel