ECOBOXX®

Ecoboxx120/Ecoboxx160KIT
Solar Portable Generator

VDE

SAA

UK
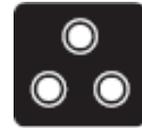
SABS

User Manual

Read this User Manual carefully before use

Safety

1. Never alter or remove the factory plates and identification labels.
2. Keep children away from the systems.
3. Never open the device. If maintenance on the unit is required, please contact the nearest service center.

1. INTRODUCTIOIN

ECOBOXX 120/ECOBOXX 160 is a solar portable generator, designed in Italy and assembled in China.

This unit allows users to use the power anywhere, for camping, outing, entertainment, lighting, or emergency use.

Ecoboxx 120/ Ecoboxx 160 is with built-in

- Solar charge controller for maximal capture of clean solar energy

- 13AH (for Ecoboxx160) or 10AH (for Ecoboxx120) AGM lead Acid battery

- 100W (max) inverter to power up small home appliances such as fan, small TV.

- USB 5V and DC 12V output to power devices, such as phone, tablet and lighting.

Protection:

Overload protection, short circuit protection, under voltage and overvoltage protection and

overcurrent protection are fully implemented

1.1 Open the box

ECOBOXX 120/ ECOBOXX 160 main unit

Accessory

**Solar Panel with 2 in 1 cable**

6m cable connect to solar panel

AC/DC Adaptor (16V, 2A)

LED lamp

1.2 Solar portable generator—ECOBOXX 120/ ECOBOXX 160

SOLAR PANEL   OUTPUT   AC OUTPUT SOCKET   POWER

B   A1   C   A   D

Safety POWER switch
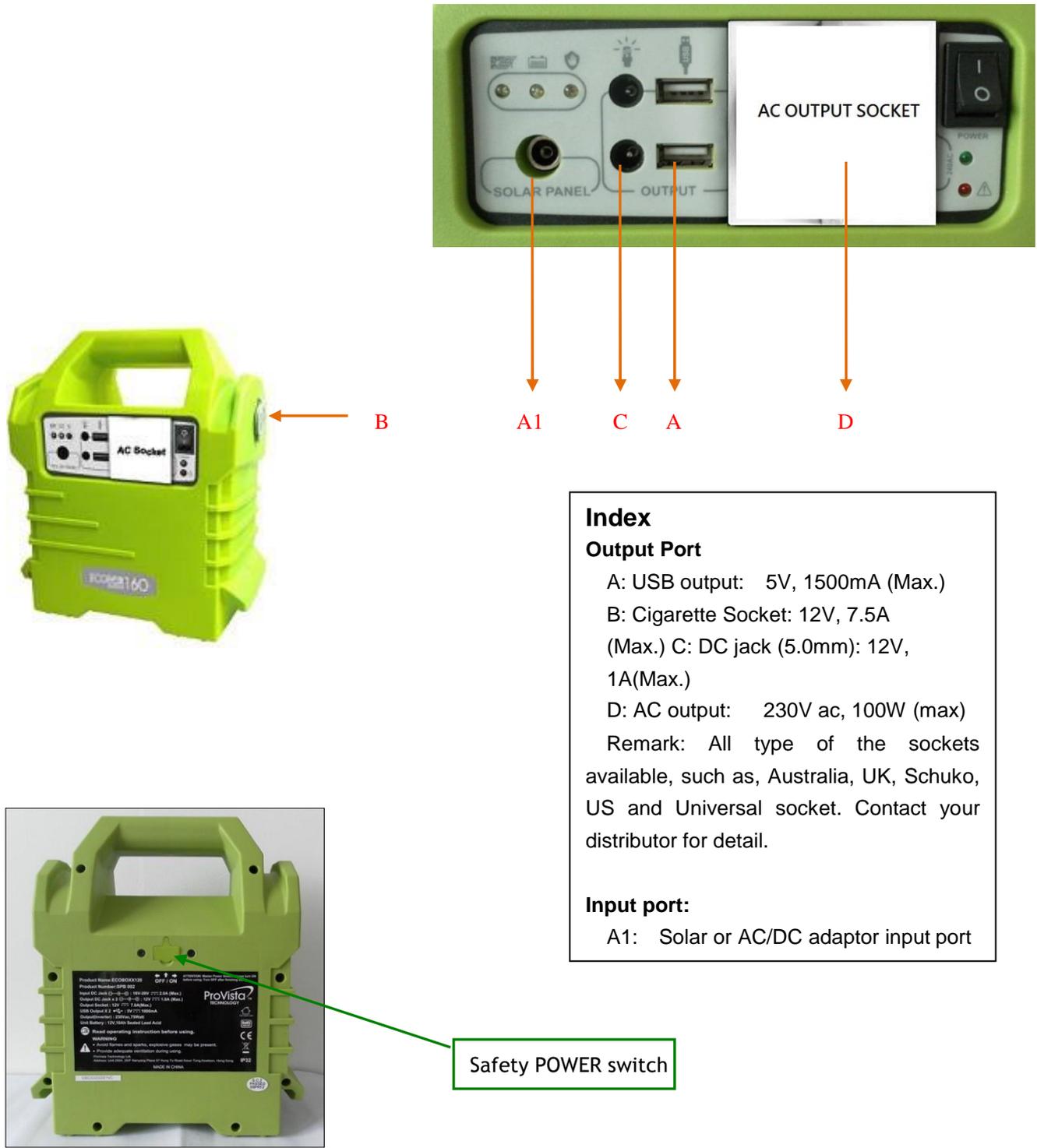
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Output Port

A: USB output: 5V, 1500mA (Max.)

B: Cigarette Socket: 12V, 7.5A
(Max.) C: DC jack (5.0mm): 12V,
1A(Max.)

D: AC output: 230V ac, 100W (max)

Remark: All type of the sockets available, such as, Australia, UK, Schuko, US and Universal socket. Contact your distributor for detail.

Input port:

A1:   Solar or AC/DC adaptor input port

2. Get Start

2.1 Switch ON the Safety SWITCH on back of unit

Lift up the rubber cap at the back of unit
Switch on the Safety Switch to activate the unit

REMARK:
Turn OFF the Safety Switch when the unit is not going to be used for a long time.

2.2 Charging

2.2.1   Plug in the AC/DC adaptor into 'A1' port to charge the battery overnight until the battery is

fully charged.

The charging LED lamp(See 2.3.1) on the front panel will be GREEN while charging.

2.2.2   The unit can be charged by solar panel provided to 'A1' port.

2.2.3   Or we charge through solar panel as below connection guide:
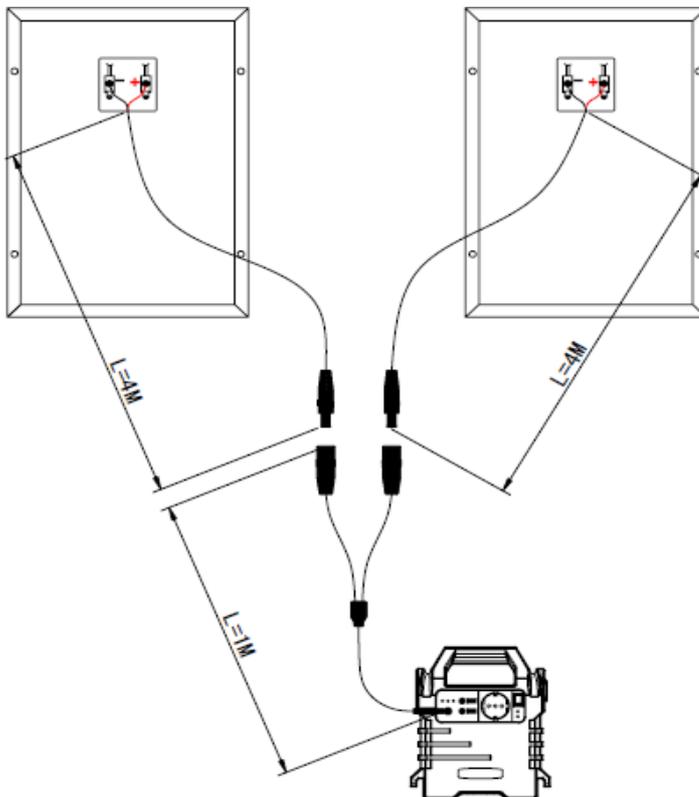
2.3 LED indicator
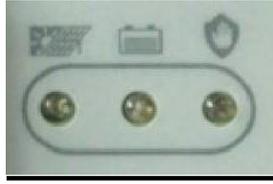
2.3.1 Charging indicator(Green, left one)
■   Normal Charging: LED ON (Solid green);
■   Overvoltage protection: the LED in slow blinking
■   Over current protection (Max. 2.0 A, last about 3 seconds), the LED in quick blinking

2.3.2 Battery level indicator(Green & Red – dual colors , middle one)
RED: Battery very low, please recharge the unit
Flash Orange: Battery low
Red/Green: Battery half full
Green: Battery half full to Full
Green Charging

2.3.3 Alert LED (Red, right one)
RED: Protection ON, unplug the device and reset the unit if Alert LED is "ON" !

Fault indicator(Red, bottom one)
Any group of the loads is overloading, the Red LED will blink; Other group of loads will work
properly if no fault. It will restore within 30 seconds after adjusting the loads to the extent
provided.
If the load is short-circuit, the Red LED will blink, it will restore within 30 seconds.

**Remark: If Red LED blink, please disconnect the loads; It can damage the units if loads
continuous failures.**

2.4 Power Output

Connections
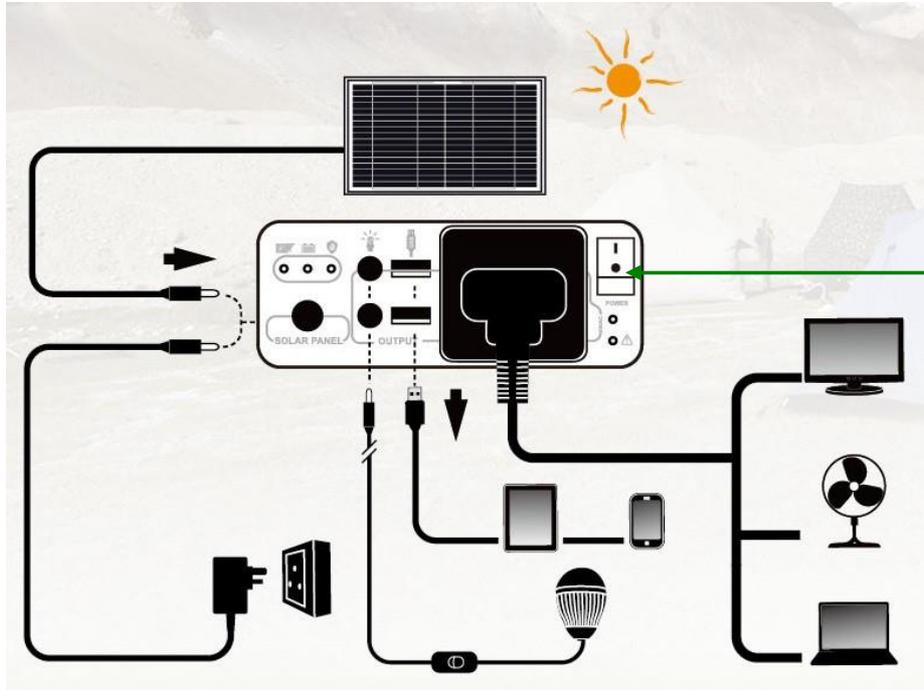
Turn on the AC Power output switch for getting AC power

Alert LED for invertor

Product Feature

Power Input	Solar panels	10Wp
	AC adapter	2A power adapter
Suggested battery		12V dc,13AH for Ecoboxx160 AGM lead Acid battery
		12V dc,10AH for Ecoboxx120 AGM lead Acid battery
Power Outputs	1)DC	1. 5V USB 1.5A x2
		2. 12V DC socket 1A x2
		3. Cig. Socket7.5A x1
		4. 12V 33A Anderson port x1
	2)AC	DC-AC inverter output 230V ac,100W(max.)
Inverter		230V ac,　100W modified sine wave inverter

ECOBOXX® POWER4FREE

Waste electrical products should not be disposed with household waste

Please recycle where facilities exist
Check with your local authority or retailer for recycling advice

Version of Instruction manual 1.0