

# SUN SYNK

## CUBE



## USER MANUAL

Global Tech China Ltd, 3 Floor, Wai Yip Industrial Building.  
171 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong.  
Tel: +852 2884 4318 Fax: +8522884 4816  
[www.sunsynk.com](http://www.sunsynk.com) / [sales@globaltech-china.com](mailto:sales@globaltech-china.com)  
[www.globaltechhk.com](http://www.globaltechhk.com)

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# 1. PRODUCT DESCRIPTION

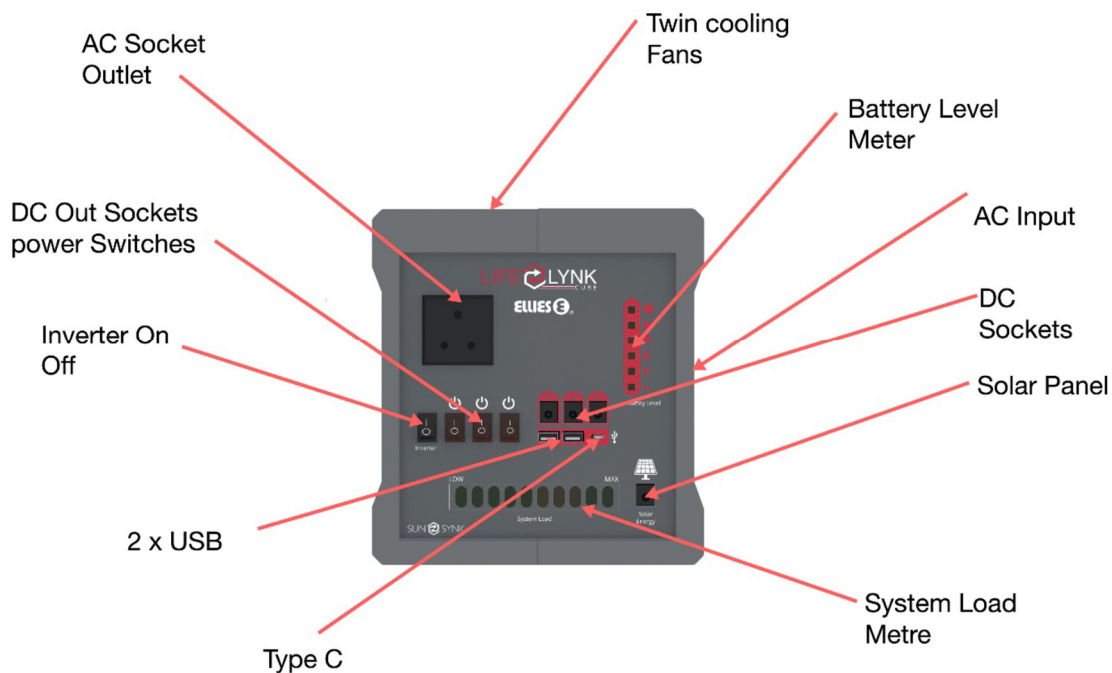
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The Cube is a lightweight all-in-one portable power station built in a compact design. It is the latest fast-charging technology of Portable Power Stations.

It delivers up to 650 Wh coming from lithium batteries (depending on the battery size). The Cube can supply many devices, ranging from lights to laptops, TV, fans, PC, tablet, or smartphones, giving you the confidence to power anything anywhere.

It comes with a built-in inverter to provide two 230VAC sockets to supply your gadgets or appliances. In addition, the Cube can be used permanently connected to mains in order to operate as a backup power supply for household essential devices when the mains fail.





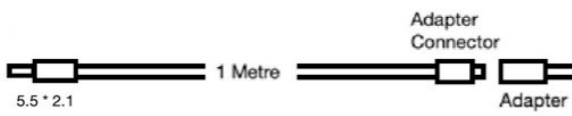
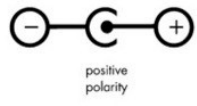

The sockets provide up to 300W of power with a 400W surge capability. Moreover, there are two USB ports and a type C port, two 12V power points, and a 9V power port, like the accessory power ports in your car. Finally, there is an on/off button over each bank of ports to turn off the outputs you are not using.



## 1.1. What the Kit Contains

- 1 x 300W power station with integral battery charger and solar charge controller;
- 2 x DC Adapters Kit (As shown in the figure below);
- Mains connection cables with two pin Euro Plug;
- 2 x 1.00 metre DC connection cables;
- Lithium battery pack.

## Connectors for the Cube:

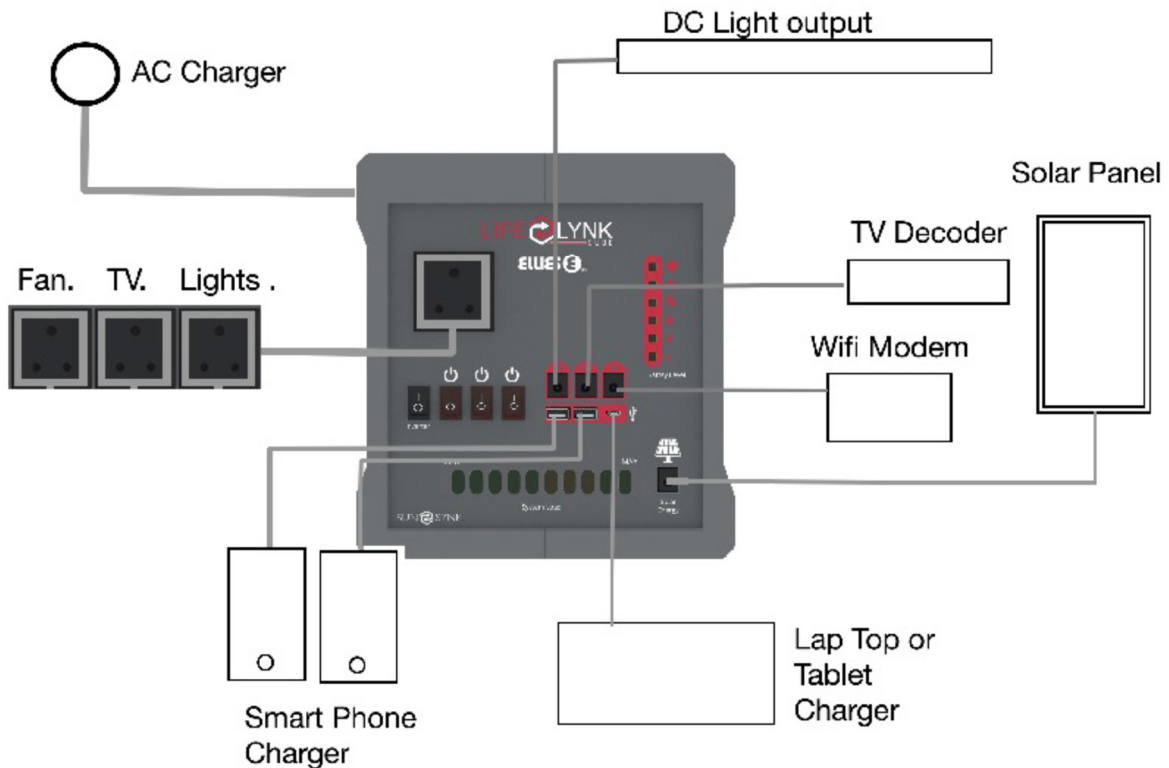
5.5 * 2.5mm		x 1			
4.00 * 1.7mm		x 1			
3.5 * 1.35mm		x 1			
3.0 * 1.1mm		x 1			
1 Metre Fig 8 cable with connectors			x 2		
LED Terminal		x 1			

## 1.2. General / Quickstart

- 1) Switch off all switches when storing LifeLynk Cube to ensure the battery to remain charged.
- 2) The LifeLynk Cube cannot power loads greater than 300W like heating and air conditioning devices, and some power tools.
- 3) Some devices with motors, small battery chargers, or emergency lights might not be reliably powered by the 230V Modified Sine Wave output of the LifeLynk Cube.

## 1.3. What it can power

Output Port	Voltage	Max Current	Usage
USB	5V	1A	Charge Mobile Phone
Type C	12V	2A	PC or Tablet
12 V DC	12V	2A	Power Router
12 V DC	12V	2A	Power Router
9 V DC	9V	1A	Power Router
AC Out Let	230V	300W	TV, Fan, Lights



## 2. WARNING INFORMATION

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### CONTAINS LITHIUM-ION CELLS

Lithium-ion cells and battery packs may get hot, explode, or ignite and cause serious injury if exposed to extreme conditions. Ensure to follow the safety warnings listed below:

- Do not connect the battery's positive and negative terminal with any metal object, such as a wire.
- Do not carry or store batteries together with necklaces, hairpins, or other metal objects.
- Do not pierce the battery with nails, strike the battery with a hammer, step on the battery, or subject it to substantial impacts or shocks.
- Do not expose battery to water or saltwater, or allow the battery to get wet.
- Do not place the battery in or near a fire, on stoves, or other high-temperature locations.
- Do not place the battery in direct sunlight, or use or store the battery inside cars in hot weather. Doing so may cause the battery to generate heat, explode, or ignite.
- Do not disassemble or modify the battery. The battery contains safety and protection devices, which, if damaged, may cause the battery to generate heat, explode or ignite.

- Immediately discontinue use of the battery if, while using, charging, or storing the battery, the battery emits an unusual smell, feels hot, changes color or shape, or appears abnormal in any other way.
- Do not place the battery in microwave ovens, high-pressure containers, or on induction cookware.
- In the event the battery leaks and the fluid gets into your eye, do not rub it. Rinse thoroughly with water and immediately seek medical care. If left untreated, the battery fluid could cause damage to the eye.
- ALWAYS maintain in good condition, with repairs only undertaken by a qualified engineer
- Do not block the air ventilation holes.
- Do not place any items on top of product.
- Do not use product if it is dropped or damaged and return for servicing. (See next note about damaged)

## ELECTRICAL SAFETY

### **WARNING**

- This product generates 230V AC voltages.
- Treat the 230V socket and any appliances connected to this socket with the same safety considerations as for any 230V mains appliance.
- Do not use product near water or get the product wet.
- Switch off immediately if product or any connected device gets wet.
- If damaged, immediately unplug it from the 230V mains supply, switch off all the outputs, do not use product, and return it for servicing.

### 3. PRODUCT SPECIFICATION

Cube	
Function	Power supply / Solar Generator
MODELS	See front cover
Capacity	Depends upon the battery size
Mains Input ( To recharge )	230 V AC 50 Hz
Max Charging Current	2 A AC
	4 A Solar
Solar Input	100 W PWM
Solar charge voltage	30 V
Outputs	USB Output
	Type C Output
	2x 12 V Outputs
	1 x 9 V Output
AC Outlet	230 V AC 50 Hz
Color	RED
Case Material	ABS
Inverter Peak Wattage	300 W
Inverter Normal Max Running Power	200 W
Inverter efficiency	Upto 93%
Current harmonic Distortion	THD < 5%
Battery Type	Lithium Iron Phosphate Battery (LiFePO4)
Battery voltage	24 V
Battery Holder Material	Nylon 66
Battery charging Time ( Off Load )	See Table
Battery Charger	AC or Solar
Off load quiescent current	200 mA

#### WARNING

Only 22-25Voc 36-Cells PV panels must be used or the product may be damaged and warranty will be void.

### 3.1. Battery Sizes

There are four batteries sizes to be used with Cube:

Battery Model	Min Batt Wh	Batt AH	Equivalent mAh	No. Cells	Configuration	Max Charge Time
150 Wh Mega	144 Wh	6	42,000 mAh	14	7 x 2	3.5 Hours
300 Wh Terra	288 Wh	12	63,000 mAh	21	7 x 3	7.0 Hours
500 Wh Nova	432 Wh	8	84,000 mAh	28	7 x 4	10 Hours
650 Wh Nova +	580 Wh	12	35	7 x 5	14 Hours	

<b>Battery Type</b>	LiFePO4
<b>Battery Voltage</b>	24V
<b>Charge Voltage</b>	30V
<b>Charge Current</b>	2,000 ma
<b>Max System Power</b>	10amp 24V
<b>Typical Ah per cell</b>	3.00 Ah or 3,000 mAh

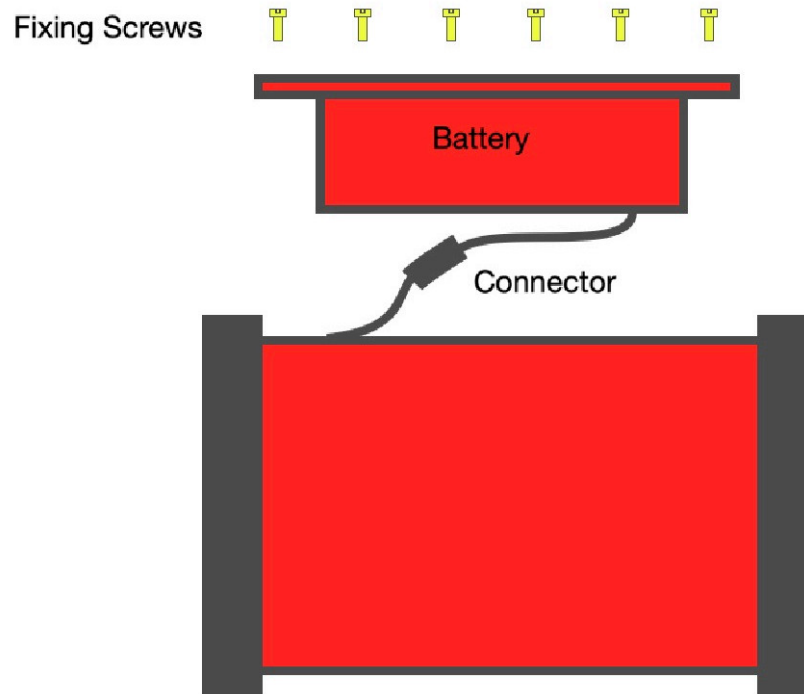
#### 4. INSTALLING THE BATTERY

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Before you can use the Cube, first you must:

- 1) Install the battery
- 2) Charge the battery

To install the battery, connect the two leads (ensure they are fitted tightly).



#### 5. USING THE PRODUCT

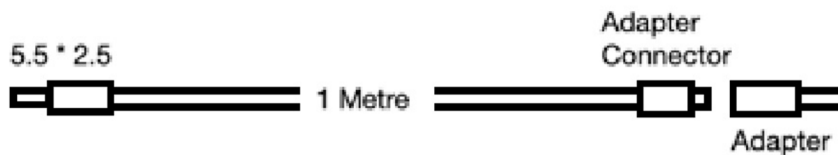
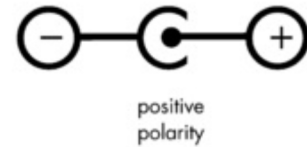
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**Fully charge the device before using it.** Plug the UPS into the main socket with the cable provided and leave to charge for up to 3 hours before you initially use the product.

- 1) Check your device is suitable to run from the Lifelynk Cube
- 2) Check the voltage and current your device uses (See section 1.2). Devices above 1Amp MIGHT not be suitable depending on the devices characteristics



3) Check the polarity of the cable. Normally, the metre is positive (It will show on the adapter Most but not all 9V or 12V devices use "Centre Positive" plugs and sockets as shown by the positive polarity symbol which can usually be seen on the devices power supply adapter. If device to be powered is centre negative then a special cable (not supplied) will be needed.



- 4) Connect the Lifelynk mini to the mains socket and switch on.
- 5) Switch on the Lifelynk Cube. Your device should power up immediately. (If your device does not power up, unplug it and seek for advice)
- 6) Fully charge before first use.

**! WARNING**

- Select a suitable adapter for your device.
- This product supplies centre positive power and if connected to a centre negative device, the connected device could be damaged. Ensure polarity is correct before connecting any device.
- Incorrectly connecting a 9V device to the 12V output of the Cube could damage the connected device.

## 6. FAULT FINDING

- 1) If your LyfeLynk Cube does not operate or charge after following all of the instructions, please try the following steps:
  - a. Check that the ON switch is in the correct position.
  - b. Check that the battery is charged (look at the charge level LEDs).
- 2) If your LyfeLynk Cube is operating but not powering my equipment:
  - a. Check your unit is compatible with the LyfeLynk.
  - b. Check the connection cable.
  - c. Check that your device is connected to the correct 9V or 12V output socket.

- d. Check that you are using the correct adaptor if more than one adaptor fits your device.
- e. Double-check the polarity of your device (Centre Positive).

If any of these recommendations solve your problem, unplug and seek professional help.

## **7. MANUFACTURER'S WARRANTY TERMS AND CONDITIONS**

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1) Global Tech China Limited and Sunsynk Limited (from now on "the Company") now warranty against manufacturing faults of the products for two years under the following terms and conditions:

- a) The product must be purchased and installed within one of the following countries: The United Kingdom, the Isle of Man, the Channel Islands, South Africa, Zimbabwe, Botswana, Hong Kong, and Australia. Products purchased and/or installed outside of these countries will not be covered by this warranty under any circumstances.
- b) The product must be installed and commissioned in full compliance with the installation instructions provided with the product packages. The product must also meet the requirement of the Benchmark initiative (if applicable).
- c) The warranty period will commence from the date of installation. However, if the installation is made after more than six months from the date on which the product was dispatched by the company, the warranty period will commence immediately after six months from the date of manufacture.
- d) The product must be confined to domestic or light commercial use only. For this warranty, "light commercial use" is referred to as a semi domestic-commercial environment including but not limited to hair salons, small shops, pubs). Should confusion arise regarding the determination of "light commercial use" the decision on the determination of the company will be final.
- e) The product must be well-maintained following the User Manual guidelines. Failure to maintain the product, poor servicing, or no servicing of the products might invalidate this warranty. Proof of service by competent servicing centers might be required to obtain warranty facilities.
- f) During the warranty period, the product must not be serviced, repaired, or altered in by any third party. Any change, alteration, modification, or servicing whatsoever from anyone other than the company will invalidate the warranty with full effect.
- g) Following the servicing, repairment, or replacement, any parts or products removed from your product will be taken as owner by the company. You will not have any claim for such parts or products.

## 2) Warranty Limitations

This warranty does not include:

- a) Any condition resulting from other than ordinary residential wear or any use for which the product was not intended, such as use in rental or contract trade or commercial use;
- b) Any condition resulting from incorrect or inadequate maintenance or care;
- c) Damage resulting from misuse, abuse, negligence, accidents, theft, tempering, flood, explosion, lightning, storms, frost, shipping damage, adverse weather or any other similar event;
- d) Dissatisfaction due to buyer's remorse;
- e) Normal wear and tear;
- f) Damages incurred during transportation;
- g) Damages incurred during assembly or maintenance (unless assembly or maintenance has been carried out by the company);
- h) Any unauthorized adjustments made to the product by a third party;

3) The company makes no express warranty or condition, whether written or oral, and the company expressly disclaims all warranties and conditions not stated in this limited warranty. The company disclaims all implied warranties or conditions, including any implied warranties of merchantability and fitness for a particular purpose.

4) All warranty claims must be filed by the consumer to the retailer of this product, who in turn is to contact the manufacturer regarding any warranty return or replacement. The company will not handle claims from the consumer directly. Please retain invoices for obtaining warranty facilities.

5) All claims under this Warranty Statement must be made within the warranty period.

6) The decision of the company regarding any issue relating to this warranty statement is final.

For more information, training videos, software upgrades, help line, forum please refer to <http://www.sunsynk.com> - Tech Support (Do not forget to register first on the website).



Sunsynk



@energysolutions



@sunsynkofficial

Sunsynk Limited & Global Tech China Ltd,  
3 Floor, Wai Yip Industrial Building.

171 Wai Yip Street, Kwun Tong,  
Kowloon, Hong Kong.

Tel. HK +852 2884 4318 Fax: +852 2884 4816

Tel. UK +44 151 528 9945

Tel. SA +27 1108 39837

[sales@globaltech-china.com](mailto:sales@globaltech-china.com)

Audio Training manuals on Apple Pod Cast and Spotify

Full training support, manuals and videos on [www.sunsynk.com](http://www.sunsynk.com)



**Global Tech China Ltd**

3rd Floor, Wai Yip Street Kwun Tong, Kowloon, Hong Kong

Want to become a distributor? Or want to know more?

Email us: [sales@globaltech-china.com](mailto:sales@globaltech-china.com) Our website: [www.sunsynk.com](http://www.sunsynk.com)

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