

Advanced 3.2V Single-Cell Boost Solution

Using a single-cell LiFePO4 battery, ensuring safety:

- ⊙ Highly graphitized technology
- ⊙ Active lithium “sustained-release” technology
- ⊙ SEI active-targeted electrolyte repair technology
- ⊙ Energy-efficient LFP technology
- ⊙ Uniform carbon coating technology
- ⊙ Multi-dimensional safety design from materials, battery cells to system levels
- ⊙ Safety under extreme conditions: No fire or explosion upon high-temperature and needle puncture
- ⊙ Active safety: Inverter board with built-in protection circuit

Ultra-Long Cycle Lifespan, More Durable

Equipped with cells with an ultra long lifecycle for over 6000 cycles, extending durability.

This product supports three charging modes: photovoltaic, AC power, and vehicle charging, flexibly meeting diverse charging needs. Taking a set of eCandle + photovoltaic panel (purchased separately) ≈ \$300, if charge and discharge ecandle once per day, it costs less than 0.5 per kWh per day.

>6000cycles	<\$0.05
Number of cycles	LCOE per day

Ultra-large Capacity, Ultra-long Battery Life

eCandle boasts a large capacity of 1004Wh, equivalent to the total power of 16 power banks of 20,000mAh each, offering much longer power availability than most portable power solutions on the market.



eCandle*1 ≈ 20,000mAh power bank*16

Ultra-high Power Output, Suitable for Various Applications

With a maximum 300W output, equipped with 1 AC outlet, 2 USB, and 1 Type-C port, eCandle can easily power laptops, smartphones, household appliances, office equipment, and small power tools, ensuring sufficient power for all your devices at home, during outdoor camping, for daily work, or in emergencies.

Super PV Charging – Power Wherever There’s Light

eCandle have a 250W Max AC input with a wide voltage range of 176-264Vac, supports up to 200W input through the XT90 PV port with MPPT technology, allowing efficient solar energy conversion even under unstable sunlight conditions.



Lightweight and Compact

Designed with portability in mind:

Weight: Less than 9kg, 30% lighter than comparable products.

Size: 290*168*248mm, 20% smaller in volume than similar one-kWh products.

30% ↓	20% ↓
weight	volume
Compared with competing products of the same amount	Compared with competing products of the same amount

UPS Uninterruptible Power Supply

eCandle is equipped with UPS function, which can easily deal with sudden power failure, voltage sagging, lightning surge, overvoltage problem, and undervoltage problem.

In the event of an unexpected power outage, it will switch at high speed in less than 20ms to continue to supply emergency power to the device.



Smart Living at Your Fingertips

Seamlessly integrated with the Tuya Smart Ecosystem for convenient and efficient lifestyle solutions.



Multiple Safety Protection



Overcharge protection



Overload protection



Overvoltage protection



Under voltage protection



Overcurrent protection



Short-circuit protection



Over-temperature protection



PV reverse connection protection

A New Choice in Energy Storage

Designed for modern urban homes and outdoors, this energy storage power station provides efficient, intelligent and environmentally friendly power solutions to help users cope with the increasing demand for electricity and improve the quality of life. eCandle products have passed 3C certification, product after-sales guarantee, and obtained international appearance patents, with its reliable product experience, simple and beautiful design and excellent functionality, widely praised around the world.

