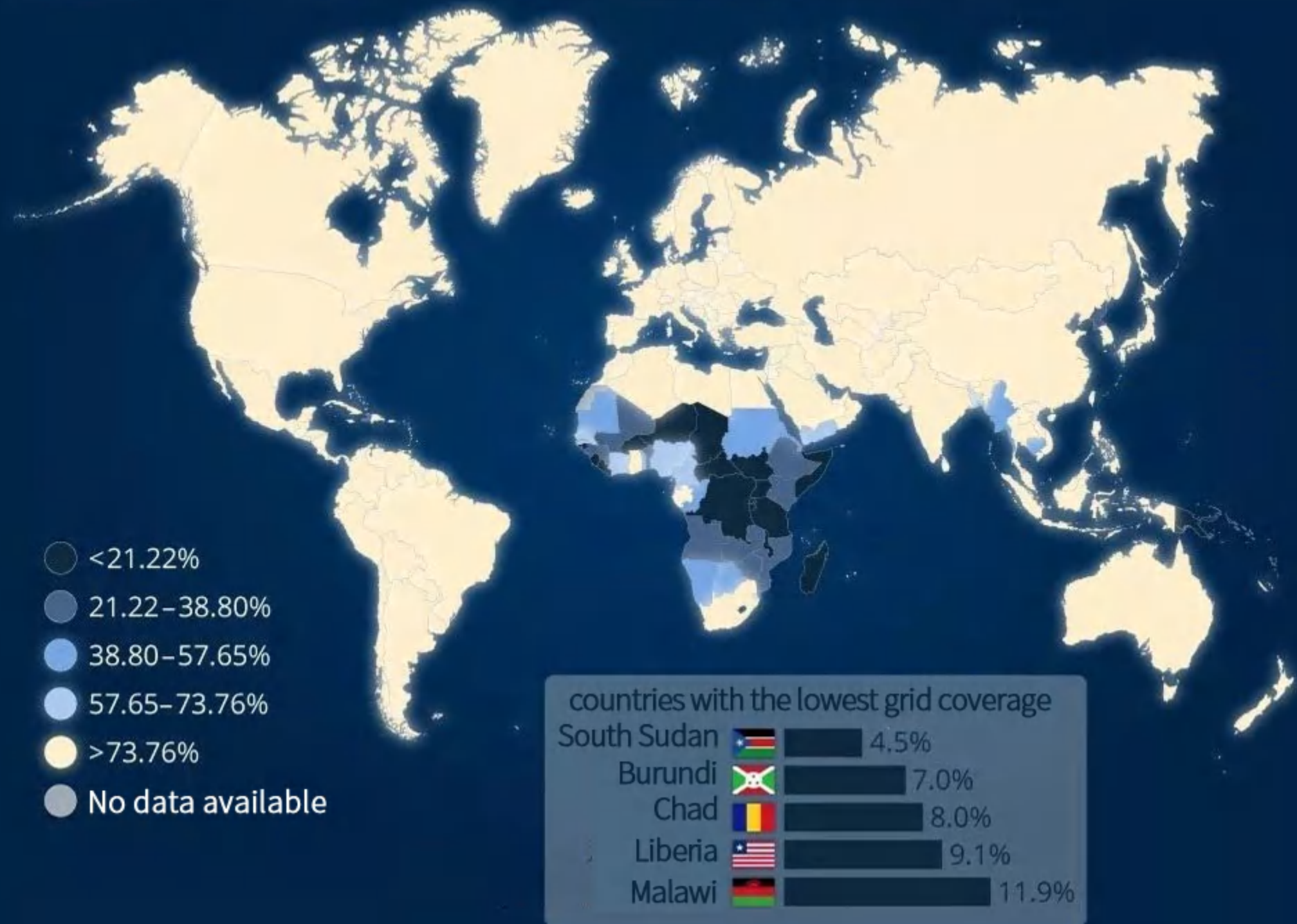


e@Candle



World electricity map: more than 90% of the population in these countries has no grid access



Although having electricity is something we take for granted in our perceptions, a report from the World Bank shows that there are still many places in some countries not connected to the grid and are in a state of perpetual powerlessness. They are mainly located in sub-Saharan Africa, and several countries in South and East Asia also have over 30% of their population without electricity.

As we can see from the map, only 4.5% of the population of South Sudan in Africa is covered by the electricity grid, in other words, more than 90% of the people in the country do not have access to electricity: they have to live without lighting at night. In three African countries, Burundi, Chad and Liberia, the population with access to power grid is also less than 10%.

Many people in Bangladesh, Myanmar, Cambodia, and Papua New Guinea in Asia are also facing such problems. Only about 20% of population in Papua New Guinea have access to electricity, while in Myanmar and Cambodia, this figure is 50%.

More than 1.18 billion people in the world suffer from energy poverty

WITROY

Calculations and analyses based on satellite data show that the total number of energy-poor people globally is much higher than the official number of people without electricity. Analyzing satellite data, Brian Min of the University of Michigan, Ann Arbor, and collaborators found that in 2020, in lands with 1.18 billion people, there were no statistics on night-time use of electricity by those populations, meaning that at least 1.18 billion people in the developing world are energy-poor, a total that is 60% higher than the official global estimate of 733 million people lacking electricity as a supply.

Fatih Birol, Executive Director of the International Energy Agency, said: “Despite the strong resilience of renewable energy, the impact of the COVID-19 epidemic has slowed down the progress of access to electricity and clean cooking.”

Africa is the least electrified region in the world, with 568 million people without access to electricity to date. In sub-Saharan Africa, the proportion of the world’s population without electricity jumped from 71% in 2018 to 77% in 2020.

In addition, cooking with non-clean energy has a negative impact on the environment - not only does it threaten forest resources, but it also leads to greenhouse gas emissions that could have been avoided.

A close-up photograph of a woman with a joyful expression, wearing a vibrant, multi-colored headscarf. She is holding a bright yellow, circular solar lamp with a white light bulb in the center. The background is a blurred, textured surface, possibly a wall or a thatched roof.

The United Nations Development Programme (UNDP) has pledged to provide 500 million people with affordable and clean energy

WITROY

The United Nations Development Program (UNDP) Agency has pledged to provide affordable and clean energy to 500 million people by 2025. At the same time, UNDP has attempted to advance this project using more feasible methods.

Hydropower has long been the mainstay of electricity in many African countries, while prolonged droughts have made hydropower unsustainable. However, Africa has the most abundant solar energy resources in the world. Therefore, UNDP has begun to support local governments to install solar energy systems to ensure stable power supply. Currently, this program is widely applied in the medical field.

“The worst thing was watching a newborn baby die and I couldn't do anything about it because there was no power.” David Masala, director of the Budiliro Polyclinic in Zimbabwe, said.

The origin of e@Candle

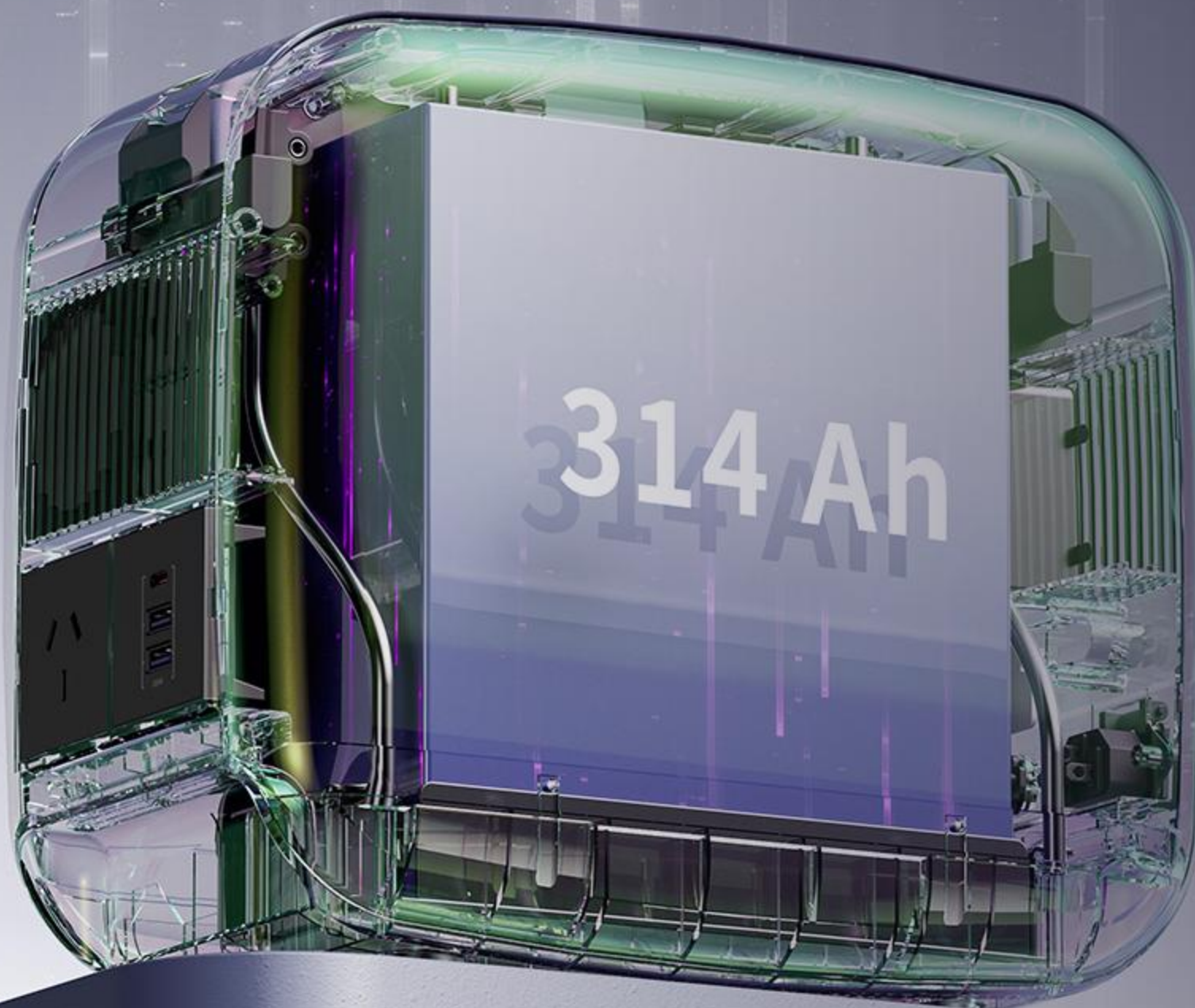
WITROY

e@Candle means “One million e-candle projects, bringing light to the world.”



Advanced single-cell battery design

WITROY



Adopts single lithium iron phosphate battery, safe and secure

- ◎Multi-element co-doping technology
- ◎Highly graphitized technology
- ◎Active lithium “sustained-release” technology
- ◎SEI active targeted repair electrolyte technology
- ◎Energy-efficient LFP technology
- ◎Uniform carbon coating technology
- ◎Low viscosity and high conductivity electrolyte technology
- ◎Multidimensional safety design from materials, battery cells to system levels
- ◎Explosion and nail penetration safety: no fire or explosion in high temperature or nail penetration
- ◎Active safety: inverter board with built-in protection circuit design

Ultra-long cycle lifespan, more durable

WITROY

Use battery cells with an ultra long cycle life of over 6,000 cycles

Asia, Africa and Latin America have strong sunlight, but AC power is unstable. e@Candle can be charged through mains electricity or photovoltaic, which can satisfy various charging needs flexibly.

Taking a set of e@Candle+ photovoltaic panels (purchased by the user) \approx \$300 as an example, if charge and discharge e@Candle once per day, it costs less than \$0.05 per kilowatt-hour per day.

>6000 cycles

Number of cycles

\$0.05

Daily cost of use

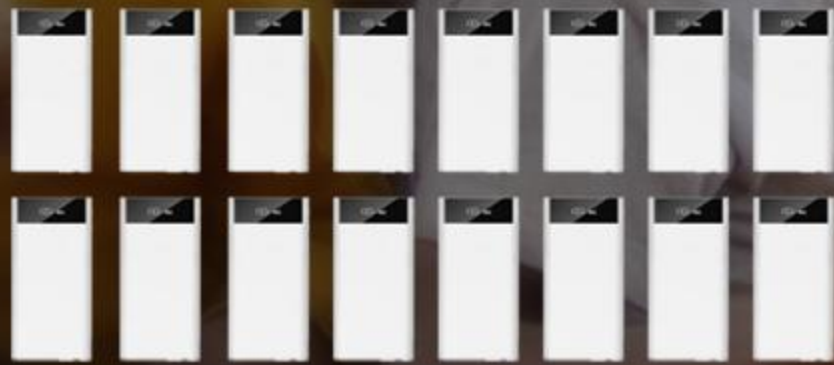


Ultra-large capacity, ultra-long battery life

WITROY

e@Candle has a huge capacity of one kilowatt hour, equivalent to the total of 16 power banks with a capacity of 20000mAh, which means that it is capable of delivering up to dozens of times more energy than most mobile power banks on the market.

Compared to 16 20000mAh power banks, e@Candle is cheaper and lighter.

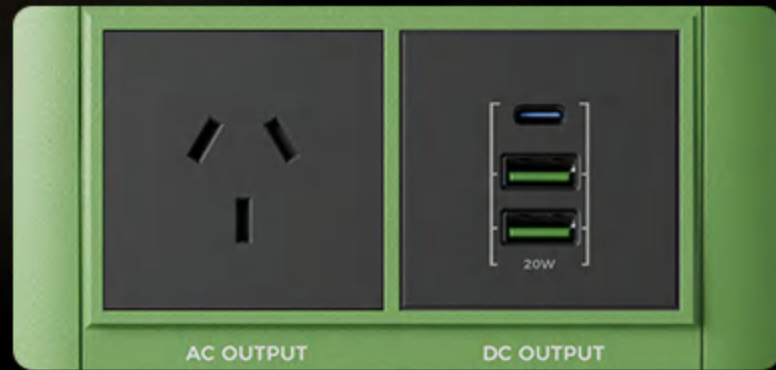


$e@Candle * 1 \approx 20,000mAh \text{ power bank} * 16$

Ultra high power, suitable for various application scenarios

WITROY

e@Candle features 300W Max of output power with 1 AC output port and 2 USB and 1 Type-C ports, compatible with a wide range of devices for charging. It provides electricity for lighting, fans, TV, water pumps and other necessary electrical equipment efficiently, ensuring that your equipment remain fully charged in any situation.



Super PV charging, where there is light, there is electricity

WITROY

e@Candle is equipped with XT90 PV input port, supporting up to 200W input, and is equipped with MPPT module. By tracking the maximum power point in real time, it can maintain efficient energy conversion rate under different lighting conditions, ensuring that every ray of sunlight is fully utilized.

In sunny Africa, Asia and Latin America, equipped with the advanced photovoltaic charging function, e@Candle can fully utilize the abundant solar energy resources. No matter where you are, as long as the sun shines, you can efficiently charge e@Candle through the photovoltaic panels.



Lightweight and portable, compact in size

WITROY

e@Candle was designed with portability in mind.

Weight: e@Candle weighs less than 8kg, which is 40% lighter than the common products with 1 kWh capacity on the market.

Size: The length, width, and height of e@Candle are 290*168*248, which is 20% smaller in size than the common products with 1 kWh capacity on the market.

40% ↓

Weight

Compared to competitors
with the same battery
capacity

20% ↓

Size

Compared to competitors
with the same battery
capacity



≈



The size of e@Candle is
only equivalent to the
size of a 14 inch medical
kit



Multiple security guarantees



Protections:

Input overvoltage protection, input undervoltage protection
Output overvoltage protection, output overload protection
Output undervoltage protection, output overcurrent/short circuit protection
Over temperature protection, battery overvoltage protection
Battery low voltage protection, battery charging overcurrent/short circuit protection
Battery discharge overcurrent/short circuit protection, battery high and low temperature protection

Certificate:

The product has passed UN38.3 and CE certification and is guaranteed after sales, bringing users a safer and more reliable product experience.



A new choice for energy storage in Asia, Africa and Latin America



e@Candle is specially designed for the Asian, African, and Latin American markets, providing users with efficient, convenient, and cost-effective power solutions.

It has registered an international design patent.



It has obtained international appearance patent.



e@Candle is applicable to the Asian, African and Latin American markets

WITROY

There are still many places in Asian, African and Latin American markets where the grid is not fully developed and utility charging is not easily accessible.

Long battery life: 20W bulb can last up to 40 hours.

Mobile: can be moved at will without wiring.

Widely applicable: The maximum output of 300W is suitable for various scenarios.

Easy charging: equipped with 200W PV input, where there is light, there is electricity.



Where there is light, there is electricity to light up better life

WITROY

Thanks to e@Candle' s advanced photovoltaic charging function and the advantage of abundant sunshine in regions such as Africa, Asia, and Latin America, people can use solar power to generate electricity for themselves, which not only reduces electricity bills but also improves the autonomy of energy use, making life more convenient and comfortable.

Many regions in Asia, Africa, and Latin America are located in low latitude areas with long sunshine hours and high solar radiation intensity throughout the year, making them very suitable for installing and using photovoltaic power generation systems.

In remote or unconnected rural areas, small-scale off grid photovoltaic systems can provide residents with basic electricity services such as lighting, communication, etc.

It not only significantly improves the living conditions of local residents, but also promotes the development of public services such as education and healthcare, contributing to a more balanced social development.



Collaborates with different governments and public welfare organizations in different countries to continuously satisfy the electricity needs of people in Asia, Africa, and Latin America.

WITROY

FaithTec plans to establish cooperative relationships with governments, non-profit organizations, and the United Nations to continuously provide power supply services to Asia, Africa, and Latin America. Our goal is to bring a cozy night to one million families.



