



INTRODUCTION

Wireless operators typically rely on electrical infrastructures to power their network equipment. During times of power outages, or in rural and remote locations where the reach of power is limited, operators need a reliable backup power source. The BaiCells Smart Uninterruptible Power Supply (SmartUPS) is a comprehensive outdoor platform which converts AC to DC 48V, supports GigE speeds, and uses PoE+ power supply. It can power BaiCells Long-Term Evolution (LTE) eNodeBs (eNBs) and other equipment such as cameras, meteorological monitoring devices, microwave units, and security systems.

The SmartUPS battery backup system is small and easy to deploy, and has a high protection grade rating of IP66. The product is very cost-effective, especially when compared to traditional indoor and outdoor power cabinets. The SmartUPS Battery Backup product comes with a standard one-year warranty; extended warranty is available.

FEATURES

Note: Features may vary based on model or region.

- Up to 400 Watt power supply
- High IP66 ingress protection rating
- Intelligent battery / OMC management

- 3-year Lithium battery service life
- Supports optical solar input and gigabit optical interface (SFP)
- Multiple output power options: 48 VDC, PoE, or inverter supplied AC
- Supports multiple devices
- User-friendly LEDs and interfaces

SYSTEM SPECIFICATIONS

Cooling Mode	Natural cooling
Installation Mode	Pole or wall
Pole Diameter Support	4-8.3 in / 105-210 mm
Noise Grade	≤ 35 dB (A) @ 1.5 m Meets standard GR487
Ingress Protection Rating	IP66
Input Voltage	110 VAC (90-264 VAC)
Battery Capacity	5Ah or 10Ah Lithium Ion. Optional external battery for 48V 20Ah and 48V 50Ah.
Output Voltage	37-54 VDC
Switch	Max 4-port Gigabit Ethernet switch

Total Output	400 Watts - 10 AMP 200 Watts - 5 AMP 1kw external customized battery*
SFP	1 Gigabit SFP cage
PoE Port	1 PoE+
Dimensions (HxWxD)	10.6 x 4 x 12.6 inches 270 x 105 x 320 millimeters
Weight	5Ah – 15.2 lbs / 6.9 kg 10Ah – 18.7 lbs / 8.5 kg

*Future capability

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40°F to 159°F / -40°C to 55°C (solar radiation included) <ul style="list-style-type: none"> Charge: -40°C to 45°C Discharge: -40°C to 55°C
Storage Temperature	-4°F to 158°F / -20°C to 70°C
Operating Humidity	5%~ to 95% RH , no dewdrops
Altitude	0-4000 meters. With every 200m altitude increase, the max operating temperature decreases 1°C.

GLOBAL PART NUMBERS

SmartUPS:

EPB41211	200W, 5A/H battery, 1-way 48VDC outlet, 4-port exchange, PoE+ Outdoor SmartUPS. Extended battery support. With network management.
EPB42131	400W, 10A/H battery, 3-way 48VDC outlet, Optical, 4-port exchange, (1) PoE+ Outdoor SmartUPS. Extended battery support. With network management.

Management System:

CSPMS001	Power Management System
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Battery Backup:

EB421	20A Power Box Extended Battery
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Notes:

- 1 - Other models available for other regions. Contact sales_na@baicells.com.
- 2 - Customized versions may be requested.

