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TOPBAND

BACKUP BATTERY ESS

Focus on lithium battery products, Create a low-carbon lifestyle.

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UPS Backup Power

UPS battery with intelligent BMS have many advantages, such as effectively improving battery charging and discharging performance, alarm and multiple protection functions, highly adaptable, safe, and long lifespan, suitable for IT rooms, precision instruments, data centers, and other applications as a backup power system.

- Self-developed, customize is available.
- High integration and high conversion efficiency.
- Fast, flexible, distributed, rack-mountable, modular deployment for easy installation and space saving.
- Comprehensive LCD display with real-time, accurate battery status and parameters for monitoring, keeping track of room dynamics.
- Max. Support 12 clusters systems connecting in parallel for high power usage.
- Automatic battery management function to automatically maintain the battery and effectively improve battery lifespan.

Model	TB512100F-T110A	TB512100F-T140A	TB-U614100A
Nominal voltage	512Vdc	512Vdc	614Vdc
Nominal capacity	100Ah	100Ah	100Ah
Nominal energy	51.2kWh	51.2kWh	61.4kWh
Max. continuous discharge current	100A	400A	400A
Max. continuous charge current	100A	100A	100A
Max. continuous output power	51.2kW	204kW	245.6kW
Cycle life	2500 cycles (80% DOD), 3500 cycles (50% DOD)		
System dimension	600*850*2000mm		
System weight	≈780kg	≈845kg	≈900kg

- Self-developed BMS, to ensure battery safety and reliability.
- Excellent low temperature performance of battery cells.
- Support 10C high discharge rate, greatly improve using efficiency.
- Fully compatible with standard lead-acid shell design, easy replacement.
- Small temperature rise and high battery temperature performance under large discharge rate.

Model	BP-U1206A	BP-U2509A	BP-U4806A	BP-U7203A
Nominal voltage	12.8V	25.6V	48.0V	76.8V
Nominal capacity	6Ah	9Ah	6Ah	3Ah
Nominal energy	76.8Wh	230.4Wh	288Wh	230.4Wh
Max. continuous discharge current	60A	81A	60A	30A
Max. continuous charge current	6A	9A	6A	3A
Recommended charge current	3A	5A	3A	2A
Dimensions	80*65*120mm	180*76*172mm	130*130*150mm	180*76*172mm
Weight	≈1.5kg	≈3.8kg	≈5.8kg	≈3.8kg

Telecom Backup Power Cabinet Solution

The solution mainly aims at the backup power supply problem of communication equipment in the event of power outage. It ensures the continuous operation of communication equipment by integrating high-frequency switching power supply, battery, DC power distribution unit and other equipment. The solution has the characteristics of high reliability, easy maintenance and high efficiency, and can improve the s tability and security of the communication system.

Battery Cabinet

BP-T48100B-T3U LFP Battery

BP-T48100F-T110AI
Smart LFP Battery

20kW Rectifier

Advantages

Efficient Implementation

Simplify and improve the supply chain management system to efficiently promote the progress of project implementation; The solution components are more compatible and the system performance is more stable.

Cost-effectiveness

The integrated solution is more convenient to maintain and operate, saving overall costs and reducing the risk of failure.

Service Response

With a fast service response mechanism, we provide technical support to customers and solve after-sales problems.

Flexible Configuration

Flexible design configuration, strong compatibility.

Smart Management

The rectifier has an alarm protection function, which can realize remote monitoring and upgrading.

2 AC-DC Rectifier

Model	20KW_48VDC
Input mode	380VAC(three-phase five-wire) 220VAC(Single-phase three-wire)
Input circuit breaker	1x63/4p
Input frequency	45~65Hz，Rating: 50Hz/60HZ
AC lightning protection	20kA/40kA，8/20us
Output voltage	-42~-58VDC，Rating: 53.5VDC
Maximum power	20kW
Battery circuit breaker	2x125/3 p
Load circuit breaker	LLVD:25A/1Px5+63A/1Px4; BLVD:10A/1PX4+32A/1Px2
Module efficiency	≤96%
DI/DO	3*AI(2 * Battery temperature, 1*Ambient temperature), 7*DI, 6*DO, 2*RS485, 1*SPD, 12VDC interface
Operating temperature range	-40℃~+65℃
Operating humidity range	5%~95%
Altitude	0~4000m (When the altitude is between 3000m and 4000m, the max operating temperature decreases by 1℃ for every 200m increase in altitude)

20kW Rectifier

4 Smart LFP Battery

Model	BP-T48100F-T110AI
Rated Capacity	100Ah
Rated energy	5.12kWh
Nominal voltage	51.2V (LFP-16S)
Internal resistance	≤ 50 mΩ @1kHz AC
Standard charging voltage	57.6V
Float charge voltage	56.0V
Maximum continuous charging current	15A（Current Limit Open Circuit） ≤100A（Current limit closed）
Recommended charging current	≤0.5C
Maximum continuous discharge current	≤1C
Communication	RS485、CAN
Dimension	482*133*435mm
Weight (without accessories)	45±2kg
Cycle life @ DOD80% (0.5c discharge)	≥3000
Optional functions	/

Application Scenario

- Mixing old and new lithium batteries.
- Multiple lithium batteries are used in parallel to meet the application requirements of large-capacity sites.
- Support boost remote supply and constant voltage discharge.
- Mixed use with lead-acid batteries, no need for battery sharing manager, supports priority discharge.

BP-T48100F-T110AI

5 LFP Battery

Modular design

- Detachable and assembled, high integration and high space utilization.

Boost remote supply

- The smart lithium battery has a voltage-boosting remote power supply function, and can output a constant voltage of up to 57V, improving the remote power supply capacity of the site.

Intelligent mixing

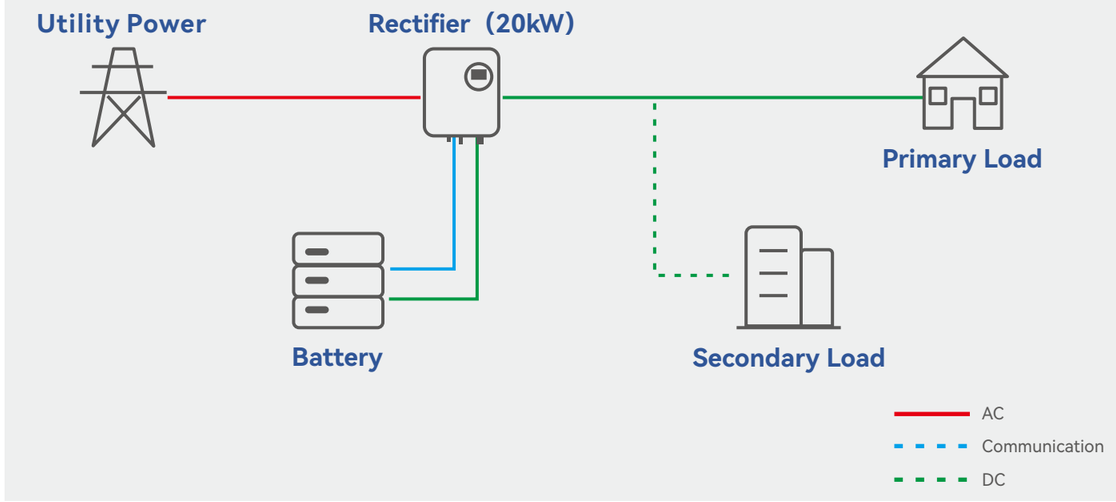
- Smart lithium batteries can be directly connected in parallel with existing batteries at the site to meet the needsof battery reuse and smooth expansion of site backup power.

Smart management

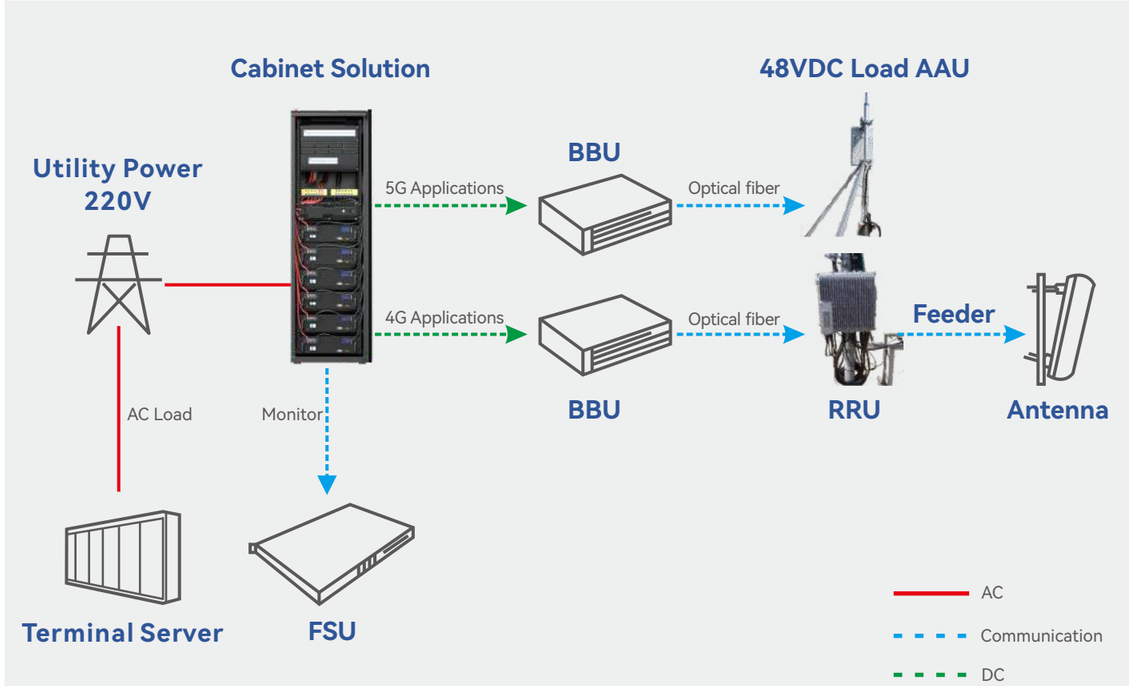
- The rectifier can monitor batteries, air conditioners, access control, smoke detectors, water intrusion and othersensors, and can remotely view device information.

Model	BP-T48100B-T3U
Rated capacity	100Ah
Rated energy	4.8kWh
Nominal voltage	48V (LFP-15S)
Internal resistance	≤50mΩ @1kHz AC
Standard charging voltage	54.75 ± 0.2V
Float charge voltage	51.75 ± 0.2V
Maximum continuous charging current	1C
Recommended charging current	≤0.5C
Maximum continuous discharge current	1C
Communication method	RS485 RS232
Dimensions	482*133*435mm
Weight (without accessories)	42±2kg
Cycle life @ 80%DOD (0.5c discharge)	≥3000
Optional functions	Circuit breaker, display screen, dry contact, anti-theft

System Solutions



Application Scenario



Telecom Backup Power

The product has the characteristics of integration, miniaturization, lightweight, intelligent, etc., safe and reliable, long cycle life, easy installation and maintenance; Applicable to all kinds of communication base stations, data rooms, public security monitoring, rail locomotives and other scenarios.

- Excellent BMS solution.
- Intelligent centralized monitoring.
- Integration & miniaturization.
- Standardize cabinet installation.
- Mature and stable solution.

Model	BP-T48100B-T3U	BP-T48150E-T4U	BP-T48100AC-T3U
Nominal voltage	48V	48V	51.2V
Nominal capacity	100Ah	150Ah	100Ah
Nominal energy	4.8kWh	7.2kWh	5.12kWh
Max. continuous charge current	100A	150A	100A
Max. continuous discharge current	100A	150A	100A
Cycle life	≥3000 cycles	≥3000 cycles	≥2000 cycles
Dimension	482*133*435mm	482*180*500mm	482*133*480mm
Weight (No accessories)	≈45kg	≈60kg	≈43kg

Model	BP-T4850C-T3U	BP-T48150H-T5U	BP-T48100F-T110AI
Nominal voltage	51.2V	51.2V	51.2V
Nominal capacity	50Ah	150Ah	100Ah
Nominal energy	2.56kWh	7.68kWh	5.12kWh
Max. continuous charge current	50A	150A	100A
Max. continuous discharge current	50A	150A	100A
Cycle life	≥2000 cycles	≥3000 cycles	≥3000 cycles
Dimension	483*133*450mm	482*222*480mm	482*133*435mm
Weight (No accessories)	≈32.5kg	≈70kg	≈45kg