

# BAK Residential Energy Storage Products



Advanced LFP battery manufacturing technology



Easy for transportation, integrated floor stand or wall mounted use



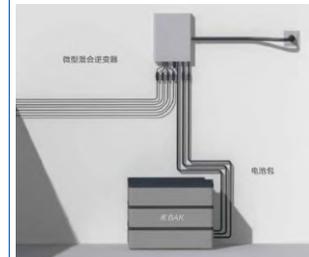
Intelligent management realizes unattended operation

## Wall-mounted Residential ESS



Product Model	51.2V 100Ah		
Rated Voltage (V)	51.2		
Rated Capacity (Ah)	100		
Rated Energy (KWh)	5.12		
Max Charge Voltage (V)	57.6		
Max Charge Current (A)	100		
Discharge Cut-off Voltage (V)	43.2		
Max Discharge Current (A)	100		
Dimension (W*D*H, mm)	510*533*180		
Working Temperature Range (°C)	Charge: 0~55 Discharge: -20~60		
Communication	RS485, RS232		

## Balcony Photovoltaic ESS (Battery Pack)



Battery Pack Mode	51.2V 50Ah		
Battery Rated Voltage (V)	51.2		
Rated Capacity (Ah)	50	100	150
Rated Energy (KWh)	2.56	5.12	7.68
Communication Mode	CAN / RS485		
Operate Voltage Range (V)	43.2~57.6		
Number of Battery Packs	1	2	3
Max Charge and Discharge Current (A)	50 / 50	100 / 100	150 / 150
Operate Temperature (°C)	Charge: 0~55 Discharge: -20~60		
Cycle Life	6000 or 8000 Cycles 25°C 0.5C 70% SOH		
Size (L*W*H, mm)	550*350*140	550*350*280	550*350*420
Weight (kg)	27	54	81

# BAK Commercial & Industrial Energy Storage Products

BAK commercial and industrial energy storage systems can be flexibly deployed in various industrial and commercial parks, optical storage and charging stations, fast charging stations, hospitals, schools, mining areas, airports, gas stations, etc.

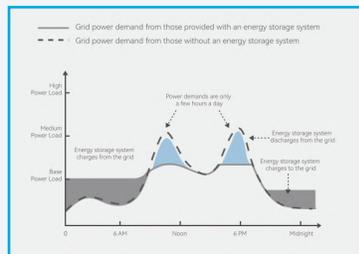


## BAK Commercial & Industrial Energy Storage

### Mode 1 | Peak-to-Valley Arbitrage

Scenario: Places with peak and valley electricity price differences and high electricity consumption, such as industrial parks, commercial buildings, low-voltage stations, charging stations, etc.

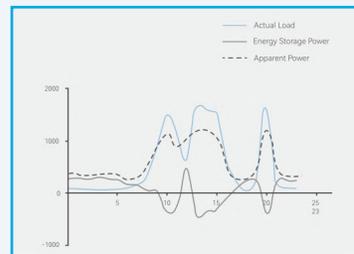
Advantage: Storing power during electricity price valleys and using it when the electricity price is high, realizing peak load shifting.



### Mode 2 | Demand Adjustment

Scenario: Places with segmented loads that have high continuous power, such as industrial parks, commercial buildings, charging stations, etc.

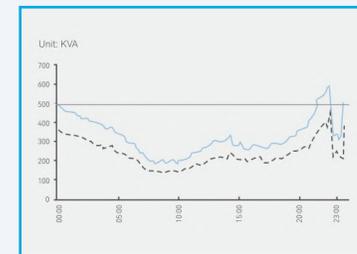
Advantage: Storing power during the low load period, using when the load is high, and reducing the peak power of the transformer.



### Mode 3 | Dynamic Capacity Expansion

Scenario: Places with peak and valley electricity price differences and high electricity consumption, such as industrial parks, commercial buildings, low-voltage stations, charging stations, etc.

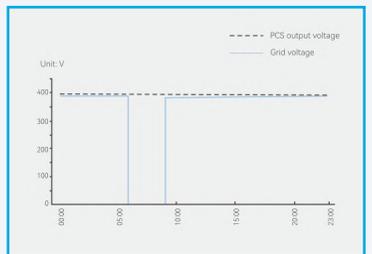
Advantage: Storing power during electricity price valleys and using it when the electricity price is high, realizing peak load shifting.



### Mode 4 | Emergency Power Backup

Scenario: Places with segmented loads that have high continuous power, such as industrial parks, commercial buildings, charging stations, etc.

Advantage: Storing power during the low load period, using when the load is high, and reducing the peak power of the transformer.



# BAK Commercial & Industrial Energy Storage Products



## Ultimate Safety

Fire protection devices are directly connected to each battery box to ensure safety.



## Convenient Operation and Maintenance

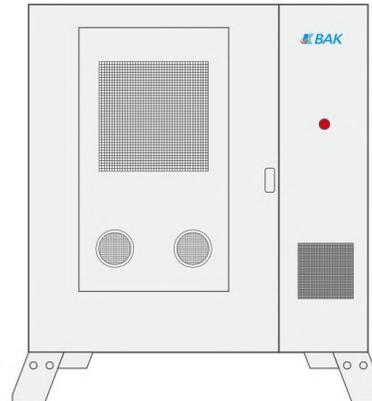
All the data of energy storage power station is connected to the cloud, which can be monitored in real time and realize unattended operation.



## Flexible Deployment

The single cabinet occupies a small area, can be dispersed deployed, centralized scheduled, easy to be flexibly placed

## Air/Liquid-cooled Integrated Cabinet ESS



Product Model	BAK-GESS-200KWH	BAK-GESS-215KWH	BAK-GESS-225KWH	BAK-768V280Ah
Rated Capacity (KWh)	200.7	217.9	225.075	215
System Configuration	224S1P	224S1P	224S1P	240S1P
Single Cell Capacity	280	304	314	280
Weight (KG)	2.9	2.95	3.0	2.6
Rated Voltage (V)	716.8			768
Operating Voltage Range (V)	627.2~806.4			672~864
Continuous Charge Ratio (C)	0.5			
Continuous Discharge Ratio (C)	0.5			
Communication	Ethernet, RS485, CAN			CAN, RS485, LAN
Size (mm)	1650*1400*2100 (Per box)			1350*1310*2100 (Per box)
Protection Rating	IP54			
Fire-protection System	Pulse aerosol			Aerosol+ perfluorohexanone
Cooling Mode	Air cooling			Liquid cooling
Noise Level (dB)	< 70			≤ 75
Discharge Temperature Range (°C)	-20~+60			0~+50
Charge Temperature Range (°C)	0~+55			-20~+55
Storage Temperature (°C)	Recommended	-10~+35		
	Allowable (Short Term)	-30~+55		
Relative Humidity (Non-condensation)(%)	5~95			
Operating Altitude (m)	< 3000 (>2000 derating is required)			

# BAK Communication Energy Storage Products

BAK specially developed products for the communication energy storage market, with specialized BMS, to ensure the safe, reliable, and scalable needs of the systems in the communication scenarios. It supports mixed uses of old and new lithium batteries.



BAK  
Communication  
Energy Storage

## 48V Rack-mounted Communication Energy Storage Products



Model	BTESF 48V100-R	BTESF 48V100-R(E)	BTESF 48V150-R5	BTESF 48V150-R5(E)	BTESF 48V200-R5	BTESF 48V200-R5(E)
Rated Voltage (V)	51.2	48	51.2	48	51.2	48
Rated Capacity (Ah)	100		150		200	
Total Energy (Wh)	5120	4800	7680	7200	10240	9600
Max Recharge Voltage (V)	58.4	54.6	58.4	54.6	58.4	54.6
Max Recharge Current (A)①	100					
EOD Voltage (V)	43.2	40.5	43.2	40.5	43.2	40.5
Max Discharge Current (A)	100					
Dimension (W*D*H, mm)	442*525*133 or 442*400*133		442*500*230 or 442*540*133		442*600*230	
Weight (KG)	43	41	65	63	79	76
Protection Rating	IP20					
Operate Temperature Range	Recharge: 0~55 Discharge: -20~60					
Humidity	5~95%RH (Non-condensing)					
Communication②	CAN / RS485 / RS232					
Protection	Over voltage protection (Cell & System) , Low voltage protection (Cell & System) High temperature protection , Low temperature protection Short circuit protection , Over current protection					
Parallel or Series	Support parallel					
Other Function	SNMP, GPS, Gyroscope Sensor③					