

Product Introduction

- SIB48-50AI Smart Sodium Battery is a new type of battery pack developed by Paragonage. It has a built-in DC/DC module and supports constant voltage/regulated output. It adopts a modular hardware design and is suitable for 19 inch cabinet installation scenarios.

The SIB48-50AI smart sodium battery has high safety, long lifespan, light weight, easy installation, maintenance free, remote monitoring ect..

- **Intelligent design:** Intelligent detection, SOC and SOH management, simplified operation and self-management;
- **Intelligent collaboration:** Implementing intelligent functions with intelligent power systems (such as intelligent boosting and intelligent mixed use).
- **Intelligent Anti-theft:** Intelligent software lock, gyroscope, buzzer alarm;
- **High Reliability:** Integrated BMS design, long service life.



Application scenarios

Mixed use with Lead Sodium battery

Constant voltage output

Parallel operation without derating

Peak Load Shifting

- Mixing new and old sodium batteries makes site expansion more convenient;
- Mixed with lead-acid batteries, no need for battery shared managers, supports priority discharge;
- Multiple sodium batteries are used in parallel to meet the requirements of high-capacity site applications;
- Support boost remote supply, constant voltage 57V discharge;
- Energy storage - peak shaving and valley filling;

Specification

SIB48-50AI

Parameter		
Rated voltage	48V	
Rated capacity(25°C,0.5C)	50Ah	
Rated energy (25°C,0.5C)	2400Wh	
Weight(Net)	≈40Kg	
Cathode Material	Layered oxide	
Combination mode	15S5P	
Dimension(L*W*H)	442mm*400mm*134.5mm	
Communication interface	RS485&CAN; 2个Dry contact	
IP level	IP20	
Case material	Steel plate baking paint	
Cycle life(0.5C, 25°C)	6000 times @80% DOD	
Design life (25°C)	15years	
Display	Alarm light/running light/SOC light	
Electrical parameters	Operating voltage	22.5V-59.25V
	Max Charge Current (25°C)	50A
	Max Discharge Current (25°C)	100A
	Standard Charge Current (25°C)	50A
	Standard Discharge Current (25°C)	50A
	Recommended Charging Voltage	54V
	Discharge Cut-off Voltage	22.5V
	Battery Input Protection	BMS
	Efficiency	> 98%
	Self Discharge (25°C)	< 5%@3months
	Internal resistance	< 40mΩ
	Maximum Parallel No.	32pieces
	Protection function	Over voltage protection, over current protection, low voltage protection, over temperature protection, low temperature protection, reverse connection protection, short circuit protection
Work environment	Charge Temperature	-40~60°C(Optional heating film) 0~60°C (No heating film required)
	Discharge Temperature	-20~60°C
	Storage Temperature	-10°C~45°C
	Relative Humidity	5%~95% (No condensation)

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电话 0755-89892688

邮箱 info@paragonage.com

网址 www.paragonage.com

