



Product Introduction

Solution of shoto SHVP-Li battery system, safe and reliable, long service life, floor area Small, simple operation and maintenance.

Application scenario

- ❑ Enterprise Data Center
- ❑ Large data center, IDC computer room
- ❑ Disaster Recovery Backup Center
- ❑ Telecom and Network Switch Room
- ❑ Financial branches and traffic dispatch centers
- ❑ Security system

Features and value

- ❑ Lithium iron phosphate highly stable battery cell, excellent thermal stability and low heat production;
- ❑ High energy density, save 70% of floor space relative to lead acid;
- ❑ The float charge life can be up to 15 years (ordinary lead acid 3 ~ 7 years);
- ❑ Excellent rate performance, maximum support for 8C rate discharge demand;
- ❑ Support flexible capacity expansion;
- ❑ Support communication with power supply equipment to realize information exchange;
- ❑ Support maintenance mode, support continuous power maintenance when multiple clusters are used in parallel;
- ❑ Protection grade: IP20, good electrical safety protection design;
- ❑ Natural heat dissipation design, no fan, no noise, no maintenance, long life;
- ❑ Independent fire-fighting system, accurate and fast fire-fighting, preventing diffusion.

Technical parameter

model	SDC11-24050	SDC11-48050
Rated voltage	240Vdc	480Vdc
Rated Capacity	50Ah	50Ah
Rated energy	12kWh	24kWh
Working voltage range	204~288Vdc	375~540Vdc
Rated charging voltage	288Vdc	540Vdc
Rated charging current	1C	
Rated discharge current	8C	
Maximum charging current	RS485, CAN	
Maximum discharge current	0~45°C	
Discharge peak current and time	15~35°C	
Communication Interface	-20~55°C	
range of working temperature	5%~95%RH	
Recommended operating temperature range	0~4000m, Above 1000m, according to EN / IEC 62040-3 derating adjustment	
Storage temperature range	Rack or cabinet	
Relative humidity	Aerosol / heptafluoropropane fire fighting system	
Altitude	Smoke / flame / temperature sensor control, BMS dry node control	
Installation form	48V(15S)	48V(15S)
model	5	10
size	600×600×1500mm	600×600×2100mm
Weight	220kg	370kg
Certification and standards	GBT36276-2018 Lithium ion battery for electric energy storage IEC62619 UL1973 UL1642	

The above is the standard configuration of shoto, which can be customized and developed according to different configuration needs

Battery options

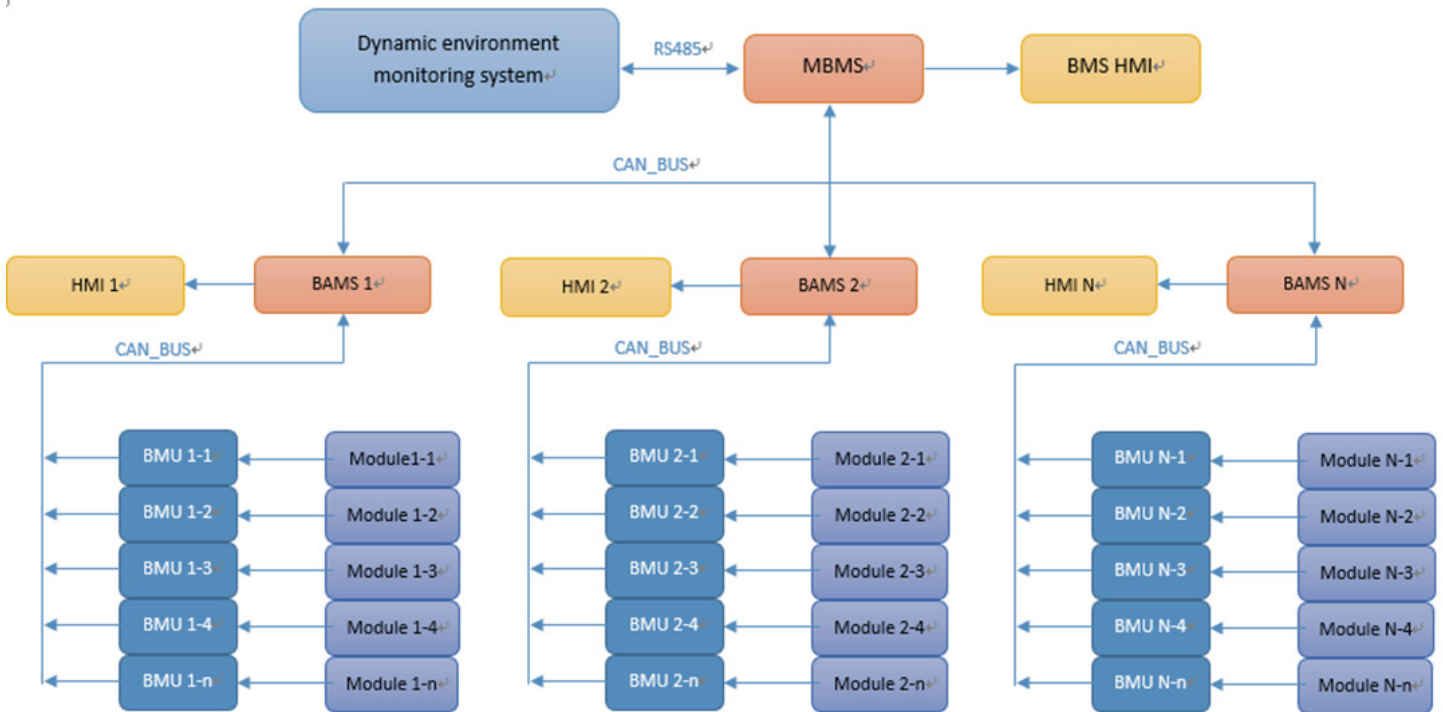
Options	Introduction	Image
Industrial control screen	<ol style="list-style-type: none"> The industrial control screen is a visual operating system, and the user can obtain the voltage, current, temperature, SOC and SOH status of the battery system through the screen Provide real-time monitoring view Support touch operation to manage battery setting parameters Support viewing and alarm management 	
Confluence system	The bus system is a multi-cluster power parallel management system. The user can realize the parallel management of multiple battery clusters through the bus system. At the same time, it can realize the electrical control of the parallel system and customize it according to the system configuration	
Electronic inspection module	<ol style="list-style-type: none"> With the help of mobile App, automatically monitor and record battery data Support viewing current alarms and real-time parameters 	

IDC SHVP-Li Battery System Solution

240V~480V



Working principle topology



Backup time

240V50Ah battery cluster backup time (min)

power	4 cluster	5 cluster	6 cluster	8 cluster
240kW	10.8	13.5	16.2	21.6
340kW		9.5	11.4	15.3

480V100Ah battery cluster backup time (min)

power	3 cluster	4 cluster	5 cluster	6 cluster
300kW	13	17.3	21.6	25.9
400kW		13	16.2	19.4
500kW		10.4	13	15.6

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