



### Product Introduction

Solution of shoto HVP-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);
- ❑ Cycle life up to 3000 times @ 100% DOD;
- ❑ Excellent rate performance, 2C discharge capacity ≥ 95%, supporting short-time high rate discharge;
- ❑ Support flexible expansion, mixing old and new;
- ❑ 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.

### Technical parameter

model	SDC11-240 series	SDC11-336 series	SDC11-384 series	SDC11-480 series
Rated voltage	240Vdc	336Vdc	384Vdc	480Vdc
Rated Capacity	116Ah	116Ah	116Ah	116Ah/232Ah
Rated energy	27.8kWh	39kWh	44.5kWh	55.6/111.3 kWh
Working voltage range	187~270Vdc	262.5~367Vdc	300~432Vdc	390~540Vdc
Rated charging voltage	270Vdc	378Vdc	432Vdc	540Vdc
Rated charging current	0.5C			
Rated discharge current	1C			
Maximum charging current	1C			
Maximum discharge current	2C			
Discharge peak current and time	3C lasts 1min, 4C lasts 10S			
Communication Interface	RS485, CAN			
range of working temperature	0~45°C			
Recommended operating temperature range	15~35°C			
Storage temperature range	-20~55°C			
Relative humidity	5%~95%RH			
Altitude	0~4000m, Above 1000m, according to EN / IEC 62040-3 derating adjustment			
Installation form	Rack or cabinet			
Battery module type	48V(15S)	48V(15S)	48V(15S)	48V(15S)
Number of battery modules	5	7	8	10
size	116Ah	600×600×1300mm	600×600×1600mm	600×600×1800mm
	232Ah	-	-	600×1000×2100mm
Weight	116Ah	240kg	320kg	370kg
	232Ah	-	-	870kg
Number of battery clusters in parallel	8			
Certifications and standards	1. GBT36276—2018 Lithium ion battery for electric energy storage 2. IEC62619 3. UL1973 4. UL1642			

### Battery options

Options	Introduction	Image
Industrial control screen	1. 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 2. Provide real-time monitoring view 3. Support touch operation to manage battery setting parameters 4. 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	1. With the help of mobile App, automatically monitor and record battery data 2. Support viewing current alarms and real-time parameters	



### Backup time

240V116Ah battery cluster backup time (min)

Power	1cluster	2cluster	3cluster	4cluster	5cluster	6cluster	7cluster	8cluster
100kW		31.7	50.1	66.8	83.5	100.2	116.9	133.6
200kW				31.7	39.7	50.1	58.5	66.8
300kW						31.7	37	42.3
400kW								31.7

336V116Ah battery cluster backup time (min)

Power	1cluster	2cluster	3cluster	4cluster	5cluster	6cluster	7cluster	8cluster
100kW		53.5	80.2	106.9	133.6	160.4	187.1	213.8
200kW			38.1	53.5	66.8	80.2	93.5	106.9
300kW				33.9	42.3	53.5	62.4	71.3
400kW					31.7	38.1	44.4	53.5
500kW						30.5	37.4	40.6
600kW							29.6	33.9
700kW								29

480V116Ah battery cluster backup time (min)

Power	1cluster	2cluster	3cluster	4cluster	5cluster	6cluster	7cluster	8cluster
100kW	31.7	66.8	100.2	133.6	167	200.4	233.9	267.3
200kW		31.7	50.1	66.8	83.5	100.2	116.9	133.6
300kW			31.7	42.3	55.7	66.8	78	89.1
400kW				31.7	39.7	50.1	58.5	66.8
500kW					31.7	38.1	44.4	50.8
600kW						31.7	37	42.3
700kW							31.7	36.3
800kW								31.7

480V232Ah battery cluster backup time (min)

Power	1cluster	2cluster	3cluster	4cluster	5cluster	6cluster	7cluster	8cluster
100kW	66.8	133.6	200.4	267.3	334.1	400.9	467.7	534.5
200kW	31.7	66.8	100.2	133.6	167	200.4	233.9	267.3
300kW		42.3	66.8	89.1	111.4	133.6	155.9	178.2
400kW		31.7	47.6	63.5	83.5	100.2	116.9	133.6
500kW			38.1	50.8	63.5	80.2	93.5	106.9
600kW			31.7	42.3	52.9	63.5	78	89.1
700kW				36.3	45.3	54.4	63.5	76.4
800kW				31.7	39.7	47.6	55.5	63.5

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