

IDC HVC-Li Battery System Solution

240V~480V



Product Introduction

Solution of shoto HVC-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;
- ❑ 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	200Ah	200Ah	200Ah	200Ah
Rated energy	48 kWh	67.2kWh	76.8kWh	96 kWh
Working voltage range	187~270Vdc	262.5~367Vdc	300~432Vdc	390~540Vdc
Rated charging voltage	270Vdc	367Vdc	432Vdc	540Vdc
Rated charging current	0.5C			
Rated discharge current	0.5C			
Maximum charging current	0.8C			
Maximum discharge current	1C			
Discharge peak current and time	1.5C lasts 1min, 2C 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	200Ah	600×1000×1300mm	600×1000×1600mm	600×1000×1800mm
weight	200Ah	460kg	620kg	710kg
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	

Passion for Storage
and Green Energy



Backup time

240V200Ah battery cluster backup time (min)

power	1cluster	2cluster	3cluster	4cluster	5cluster	6cluster	7cluster	8cluster
100kW		54.7	84.7	112.9	141.1	169.3	197.6	225.8
200kW				54.7	68.4	84.7	98.8	112.9
300kW						54.7	63.8	73
400kW								54.7

336V200Ah battery cluster backup time (min)

power	1cluster	2cluster	3cluster	4cluster	5cluster	6cluster	7cluster	8cluster
100kW		79	118.5	158.1	197.6	237.1	276.6	316.1
200kW			57.5	79	98.8	118.5	138.3	158.1
300kW					63.8	79	92.2	105.4
400kW						57.5	67	76.6
500kW								61.3

384V200Ah battery cluster backup time (min)

power	1cluster	2cluster	3cluster	4cluster	5cluster	6cluster	7cluster	8cluster
100kW		90.3	135.5	180.6	225.8	271	316.1	361.3
200kW			65.7	90.3	112.9	135.5	158.1	180.6
300kW				58.4	73	87.6	105.4	120.4
400kW						65.7	79	90.3
500kW							61.3	70
600kW								58.4

480V200Ah battery cluster backup time (min)

power	1cluster	2cluster	3cluster	4cluster	5cluster	6cluster	7cluster	8cluster
100kW		112.9	169.3	225.8	282.2	338.7	395.1	451.6
200kW			82.1	112.9	141.1	169.3	197.6	225.8
300kW				73	94.1	112.9	131.7	150.5
400kW					68.4	82.1	98.8	115.2
500kW						64.4	79	90.3
600kW							63.8	73
700kW								62.5

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