

UPS+S³ Lithium-ion Battery All-in-one Solution



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Product Introduction

The all-in-one S³ lithium-ion battery solution is integrated the UPS, power distribution, battery into one cabinet. It is mainly used in commercial applications, such as IT computer rooms, regional office buildings, commercial security systems, and is committed to providing customers the long back-up time with the small footprint product.

- All in one design, simple and compact, no additional battery cabinet and distribution box, small footprint.
- Touch screen monitoring, covering UPS+S³, convenient for users to quickly query information.
- 6-40K rack UPS are available to give you the most reliable backup power.
- Built-in lithium battery module to provide long-term backup power and the hot-swappable design for easy maintenance.



UPS+S³ Lithium-ion Battery
All-in-one Solution

Application

Government, education, transportation, communication, finance, data center, medical treasure, enterprise, industry, etc.













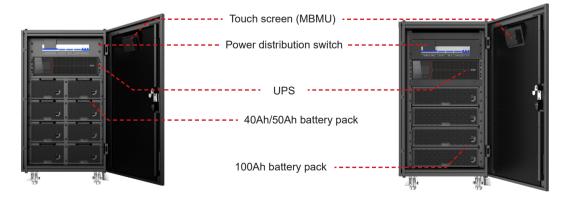








Product Configuration



40Ah/50Ah lithium-ion battery system cabinet

100Ah lithium-ion battery system cabinet

Product Features

Compact

Integrated the battery, UPS and power distribution switches into one cabinet, suitable for the long back time application with the small footprint, convenient for maintenance

Battery packs in parallel design

- -Modular parallel design, flexible for expansion
- -Combine with the DC/DC module, support the mixed use with the old and new batteries at the module level
- -Failure module exit automatically, will not affect the system. Other modules can work normally. Improve the reliability



Mixed use with the old and new batteries

Safe

DC/DC isolated solution

- -Electrical isolation, isolated the mains with the battery. Guarantee the safetv.
- -Reduces safety risks due to liquid leakage from battery cells

• Fire-fighting protection

-Even under the battery failure (under extreme condition), can ensure the firefighting protection

Full breaker design

-Full protection with input, output, bypass, and maintenance bypass breaker, battery breaker, improve the reliability

Convenient

- Centralized monitoring the batteries and the UPS, all the information can be visualized on one touch screen.
- Modular design, plug and play, Minute-level maintenance, reduce the OPEX cost
- Tilt design touch screen, friendly for the users, convenient for operation



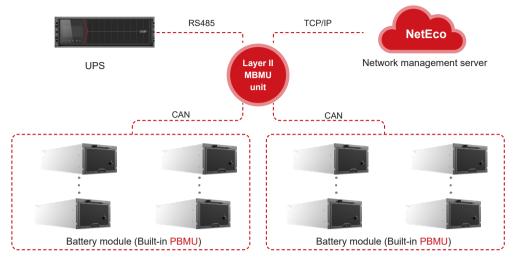






Featured Two-layer BMS Architecture

The adopted two-layer BMS architecture (PBMU/MBMU) ensures the reliability of lithium-ion battery system from cell, module and system layers.



Battery Configuration Table

1. 40Ah battery module for short time power backup

Battery module (mins) UPS capacity (kW)	1	2	3	4	5	6	7	8
6	17	34	51	68	85	102	119	136
10	10	20	30	40	50	60	70	80
20	/	10	15	30	25	30	35	40
30	/	/	10	20	16	20	23	26
40	1	1	1	10	12	15	17	20

2. 50Ah battery module for short time power backup

Battery module								
(mins)	1	2	3	4	5	6	7	8
UPS capacity (kW)								
6	23	46	69	92	115	138	161	184
10	15	30	45	60	75	90	105	120
20	/	15	22	30	37	45	52	60
30	/	/	15	20	25	30	35	40
40	/	/	/	15	18	22	26	30

3. 100Ah battery module for long time power backup

Battery module (mins) UPS capacity (kW)	1	2	3	4
6	1	95	143	191
10	1	57	86	114
20	/	1	1	58

The above configuration is for reference only, subject to actual measurement

Technical Specification

MODEL		S3C040-1106 S3C050-1106 S3C100-1106	S3C040-1106 S3C050-1106 S3C100-1110	S3C040-3310 S3C050-3310 S3C100-3310	S3C040-3320 S3C050-3320 S3C100-3320	S3C040-3330 S3C050-3330	S3C040-3340 S3C050-3340				
Capacity(kVA)		6	10	10	20	30	40				
INPUT											
Voltage (Vac)		L-N: 80-275 (176	6-275 at full load)		L-L: 138~485 (30	5~485 at full load)					
Frequency (Hz)				40-	-70						
Power Factor		≥0.99									
THDi			≤3% (resistive full load), ≤5% (non-linear full load)								
Phase		1:	:1	1:1/3:1/3:3 3:1/3:3							
BYPASS											
Voltage (Vac)		±15%/±20%	(default ±20%)		±10%/±15%/±20	% (default ±20%)					
Frequency (Hz)			±5%/±10% (default ±10%)								
Overload			130%	%: long term, 200%:	10min, above 200%	6 10s					
OUTPUT											
Voltage (Vac)		L-N: 208/220	/230/240±1%	L-L: 380/400/415±1%							
Frequency (Hz)		50/60±	:0.5Hz	50/60±0.1 (battery mode)							
Power Factor				1.	.0						
THDv			6 (resistive full load), 9% (non-linear load) ≤2% (resistive full load), 4% (nonlinear				ad)				
AC/AC Efficiency	(Max.)	94%	94.5%	96%							
Overload					long term; 110%: 60min; 130% load: 10 min; 155%: 1 min; above 155%: 200ms						
Transfer Time (ms)	0 (Mains mode-Battery mode), ≤1 (Mains mode-Bypass mode)									
Crest Factor				()						
BATTERY											
Battery Type				Lithium-io	n batteries						
Voltage (Vdc)		240	/480	±240							
Internal Battery		(1~8)*40Ah/51.2V/2.05kWh/10kW or (1~8)*50Ah/57.6V/2.88kWh/10kW or (1~4)*100Ah/57.6V/5.76kWh/5kW									
GENERAL											
Communication					85+dry contact card SNMP card	d					
Display		4.3" touch screen									
Noise (dB)		<65									
Working Tempera	ture (°C)	-5~40									
Altitude(m)		2000									
Relative Humidity		0 ~ 95%, no condensation									
Protection Grade		IP20									
Agency/Certificati	ion/Conformance			UN38.3, EN 6204	10-1, EN 62040-2						
Dimension	UPS	438×500	×87 (2U)	438×500×130 (3U) 438×680×13			×130 (3U)				
(W×D×H)(mm)	Cabinet	600×1000×1110									
Weight (kg)	UPS	10.6	12.2	2	0	3	34				
Weight (kg)	Cabinet ¹			12	20						

Specification is subject to change without prior notice.

 Without built-in UPS and batteries.

Reliable • Flexible • Responsible

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