High-voltage battery system

HS160-PA

64kWh - 256kWh

High Performance

- 0.5C charge/discharge capability with over 8,000 life cycles
- Cell-level temperature and voltage monitoring for enhanced safety
- Built-in fuse protection for reliable system operation

Easy Installation & Maintenance

- Pre-installed terminals for faster on-site installation
- Optimized for manual handling
- Bottom leveling adjustable
- Modular design enables rapid battery cascading and replacement

AI-Powered Battery Management

- Early detection of abnormal cell behavior
- Predictive warning for internal short-circuit risks
- Optimized battery operation to maximize lifecycle value

Flexible Expansion

- Supports 4–16 packs per cluster
- DC parallel up to 64 packs, expandable to 1024 kWh
- Flexible configuration to meet 2–16 hours of backup need
- *DC parallel will be upgraded in the future

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*V1.0. Information may be subject to modify without notice. 650.00165.00

	TS-HS640	TS-HS800	TS-HS960	TS-HS1120	TS-HS1280	TS-HS1440	TS-HS1600
GENERAL INFORMATION							
Scalability	4	5	6	7	8	9	10
Nominal voltage	204.8 d.c.V	256 d.c.V	307.2 d.c.V	358.4 d.c.V	409.6 d.c.V	460.8 d.c.V	512 d.c.V
Operating voltage range	169.6 - 233 d.cV	212 - 292 d.cV	254.4 - 350 d.cV	296.8 - 409 d.cV	339.2 - 468 d.cV	381.6 - 526 d.cV	424 - 584 d.cV
Nominal energy	64.0 kWh	80.0 kWh	96.0 kWh	112.0 kWh	128.0 kWh	144.0 kWh	160.0 kWh
Usable energy(95% DOD)①	60.8 kWh	76.0 kWh	91.2 kWh	106.4 kWh	121.6 kWh	136.8 kWh	152.0 kWh
Rated charge/ discharge power	32.0 kW	40.0 kW	48.0 kW	56.0 kW	64.0 kW	72.0 kW	80.0 kW
Recommend charge / discharge current	157 A						
Max. charge / discharge current②	173 A						
Cycle life (95% DOD)③	> 8000 Cycles						

	TS-HS1760	TS-HS1920	TS-HS2080	TS-HS2240	TS-HS2400	TS-HS2560
GENERAL INFORMATION						
Scalability	11	12	12	14	15	16
Nominal voltage	563.2 d.c.V	614.4 d.c.V	665.6 d.c.V	716.8 d.c.V	768 d.c.V	819.2 d.c.V
Operating voltage range	466.4 - 643 d.cV	508.8 - 701 d.cV	551.2 - 760 d.cV	593.6 - 818 d.cV	636 - 864 d.cV	678.4 - 921.6 d.cV
Nominal energy	176.0 kWh	192.0 kWh	208.0 kWh	224.0 kWh	240.0 kWh	256.0 kWh
Usable energy(95% DOD)①	167.2 kWh	182.4 kWh	197.6 kWh	212.8 kWh	228.0 kWh	243.2 kWh
Rated charge/ discharge power	88.0 kW	96.0 kW	104.0 kW	112.0 kW	120.0 kW	128.0 kW
Recommend charge / discharge current	157 A					
Max. charge / discharge current②	173 A					
Cycle life (95% DOD)③	> 8000 Cycles					

ENVIRONMENT LIMIT	
Charge temperature	0 - 53°C
Discharge temperature	-20 - 53°C
Cooling concept	Smart air cooling
Storage temperature	-20 - 30°C (12 months) 30 - 50°C (6 months)
Relative humidity	5 – 95% (non-condensing)
Max. operating altitude	3000 m
Installation type	Stackable
Ingress protection	IP20
Environment	Indoor
BMS	
Model	HS160-BA
Dimensions (WxHxD)	495 × 228 × 800 mm
Net weight	33 (±1)kg
BATTERY MODULE	
Battery model	HS160-PA
Battery type	LFP
Module capacity	16.0 kWh
Dimensions (WxHxD)	495 × 228 × 800 mm
Net weight	117.5 (±1) kg
COMMUNICATION	
Communication interfaces	CAN2.0 / RS485
STANDARD	
Certifications	IEC 62619, IEC 62477, IEC 63056, IEC 61000, UL9540A, UN38.3
ACCESSORIES--BASE	
Dimensions (WxHxD)	495 × 50 × 800 mm
Net weight	10.7 (±1)kg

①Test conditions: 95% DOD, 0.2C charge & discharge @+25°C
②Current is affected by the number of batteries connected in parallel as well as temperature and SOC
③Test conditions: 25±2°C, 0.5C charge & discharge, 70%EOL

Preliminary