

Product Features

Independent

- ✓ Built-in EMS function with multi-mode operation
- ✓ Real uninterruptible power supply, switching time <20ms
- ✓ Stronger back up power up to 24kW

Safe

- ✓ Physical and electrical dual isolation
- ✓ Modular fire protection integration
- ✓ AFCI function integration

Simple

- ✓ All-in-one design
- ✓ Modular installation & Quick plug connector (Battery Module)
- ✓ Multiple battery expansion & Multiple system expansion

Smart

- ✓ Multi-point real-time monitoring, adaptive SOC management
- ✓ PACK-level battery management, active balance of charging and discharging
- ✓ Intelligent energy management with weather forecast function

SPECIFICATIONS

System components					
Inverter model	iStorage S2A 7600	iStorage S2A 7600	iStorage S2A 9600	iStorage S2A 10000	iStorage S2A 12000
Number of Inverter	1				
Battery system model	iStorage B5L-S1				
Number of battery module	3~8				
General					
Cell technology	LiFePO4				
System capacity	15~40kWh				
Rated system power	7.6kW	9.6kW	10kW	11.4kW	11.4kW
Peak system power	15.2kW, 10s	19.2kW, 10s	20kW, 10s	22.8kW, 10s	24kW, 10s
Dimension (W*H*D)	800*2045*240mm (four battery modules, with foundation)				
Noise	<40dB				
Cooling type	Natural cooling				
Altitude	2000m/6561ft				
Operating temperature	-20~50°C/-4~122°F				
Recommended operating temperature	15~30°C/59~86°F				
Storage temperature	-10~45°C/14~113°F				
Operating humidity	0~100%RH				
Display	LED & APP				
Installation method	Floor or Wall-mounted (optional)				
Communication interface	Portal-WiFi (standard)/4G (optional), Meter-RS485, EMS-RS485 (sunspec)				

Hybrid Inverter Specification

Items	iStorage S2A 7600	iStorage S2A 7600	iStorage S2A 9600	iStorage S2A 10000	iStorage S2A 12000
DC Input (PV)					
Recommended Max. PV input power	18kWp				
Max. PV input voltage	500Vdc				
No. of MPPTs	4(2)				
No. of PV strings per MPPT	1/1/1/1 (2/2)				
Max. PV input current	15A/15A/15A/15A (30A/30A)				
Max. short current	18.75A/18.75A/18.75A/18.75A (37.5A/37.5A)				
MPPT voltage range	100~500Vdc				
Starting voltage	125Vdc				
DC (PV) switch	Yes				
DC Input (Battery)					
Battery voltage range	360~500Vdc				
AC Input and Output (On-grid)					
Rated AC output power	7.6kW	9.6kW	10kW	11.4kW	12kW
Rated AC output voltage	240Vac				
Grid voltage range	211.2-264Vac				
Max. output current	31.7A	40A	41.7A	47.5A	50A
Max. input current	63.4A	80A	83.4A	95A	100A
Rated grid frequency	60Hz				
Grid frequency range	55~65Hz				
Power factor	>0.99 (rated power)				
Adjustable power factor	0.8 (leading)~0.8 (lagging)				
THDi	<3% (rated power)				
Over current protection device	125A breaker				
Maximum supply fault current	5kA				
AC Input (Generator)					
Rated AC current	50A				
Rated AC output power	12kW				
Over current protection device	63A breaker				
Maximum supply fault current	5kA				
AC Output (Back-up)					
Rated AC output voltage	240Vac/120Vac 2W/N/PE, Split Phase				
Rated output frequency	60Hz				
Rated output power	7.6kW	9.6kW	10kW	11.4kW	12kW
Peak output power	15.2kW,10s	19.2kW,10s	20kW,10s	22.8kW,10s	24kW, 10s
Peak output power	63.4A,10s	80A,10s	83.4A,10s	95A,10s	100A, 10s
Switch time	<20ms (without parallel), <300ms (parallel)				
Over current protection device	63A breaker				
Maximum supply fault current	5kA				
Support the unbalance load	Yes				
Efficiency					
Max. efficiency	97.5%				
European efficiency	96.8%				
General					
Weight	35kg/77.16lb (including side plates)				
Dimension (W*H*D)	800*450*200mm/31.49*17.72*7.87in (including side plates)				
Enclosure type	NEMA Type 3R				
Certification	UL9540, CFR 47, FCC Part 15, Subpart B, UL1741SB, CSA C22.2, IEEE1547, IEEE1547.1UL1699B, UL1998, CEC, IEEE 2030.5				

*Specifications are subject to change without prior notice.

Lithium-ion Battery Module

iStorage SB5L-S1 Series

Product Features

- ✓ Safe and reliable
- ✓ Intelligent and flexible
- ✓ Easy O&M



Items	iStorage SB5L-S1 Series
General	
Battery type	LFP
Energy capacity	5kWh
Scalability	8
Scalable capacity range	5~40kWh
DOD	100%
Rated power	2.5kW
Rated voltage	380Vdc
Voltage range	360~500Vdc
Maximum charge current	6.94A
Maximum discharge current	6.94A 8.3A, 10s
Dimensions	800*380*200mm/31.49*14.6*9.37in (including side plates)
Weight	49kg/108.02lb (including side plates)
Operating temperature	-20~50°C
Recommended operating temperature	15~30°C
Storage temperature	-10~45°C
Humidity	0~100%RH
Altitude	2000m
Cooling type	Natural cooling
Display	LED
Communication interface	RS485, CAN
Topology	Isolated/Non-isolated
Connection method	Floor or Wall mounted
Enclosure type	IP65
Certification	IEC 62619, IEC 60730, UN38.3, IEC 62040-1

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