

iBattery H: Split-phase ESS

Split-phase ESS for North America

Stackable Home ESS



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 & RSD 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

System Specification

Items	ESS 7600 Series	ESS 9600 Series	ESS 10000 Series	ESS 11400 Series	ESS 12000 Series
System components					
Inverter model	Inverter 7600	Inverter 9600	Inverter 10000	Inverter11400	Inverter 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	12kW
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 emission			<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)		
Certification			UL9540, FCC Part 15 Class B, UL1699B, UL1998, CEC, UL1741 SA, IEEE1547, IEEE1547.1, California Rule 21, HECO Rule 14H		

Hybrid Inverter Specification

Items	Inverter 7600	Inverter 9600	Inverter 10000	Inverter 11400	Inverter 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 (BAT)					
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	41.6A	47.5A	50A
Max. input current	63.4A	80A	83.3A	83.3A	83.3A
Rated grid frequency			60Hz		
Grid frequency range			55~65Hz		
Power factor			>0.99 (rated power)		
Adjustable power factor			0.85 (leading)~0.85 (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 current	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%		
CEC efficiency			96.8%		
General					
Weight			35kg/77.16lb		
Dimension (W*H*D)			800*450*200mm/31.49*17.72*7.87in		
Enclosure type			NEMA Type 3R		

*Specifications are subject to change without prior notice.

Lithium-ion Battery Module

iBattery H ESS Battery Module

Product Features



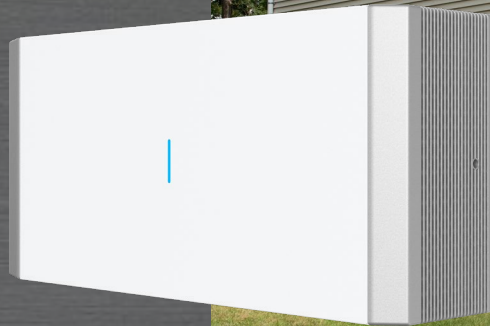
Safe and reliable



Intelligent and flexible



Easy O&M



Items	iBattery H Battery Module
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	380*800*200mm
Weight	55kg
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
Certification	UL1973, UN38.3, UL1741, UL1998, FCC

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