3.6-6kW Single-phase Hybrid All-in-one RESS

A Series H3.6/5/6S

A3600S/A5000S/A6000S + B8900M-HAW

3.6kW/5kW/6kW
8.9kWh-17.8kWh / 8.9kWh-106.8kWh



- 2 independent MPPTs with up to 200% PV oversizing, Max 12kW
- Inverter parallel function, up to 6 units (6-36kW); Battery parallel function, up to 6 clusters per inverter(8.9-106kWh)
- 18cm ultra-slim design
- Stackable integrated design, 50% faster installation and commissioning time
- Intelligent load management
- Heating function - working conditions -20°C
- Backup load transfer time ≤10ms
- Built-in by-pass switch—in the event of system failure
- Top-tier safety -5-layer battery protection systemwith integrated aerosol fire suppression

A better world
powered by you

Technical Specification

Model	A3600S	A5000S	A6000S
PV Input Specification			
Recommended max. PV input power(W)	7200	10000	12000
Max. PV input voltage(V)	550		
Startup input voltage(V)	90		
Rated PV input voltage(V)	360		
MPPT voltage range(V)	100–530		
No. of independent MPPT inputs	2		
No. of PV strings per MPPT	1 / 1		
Max. PV input current(A)	16A/16A		
Max. PV short-circuit current(A)	20A/20A		
Battery Specification			
Battery voltage range(V)	80–460		
Max. charge / discharge current(continuous)(A)	35A/37A		40A/40A
Max. charge / discharge power(continuous)(W)	5000 / 5000	5000 / 5000	6000 / 6000
Communication	CAN		
Charging strategy	BMS instructions		
Battery expansion	1~2 series-connected 8.9kWh high-voltage battery modules per cluster		
Inverter Expansion	Support 6 inverters parallel		
Grid Port Specification			
Max. AC input apparent power(VA)	7500	7500	7500
Max.AC input current	34.1	34.1	34.1
Max. AC output apparent power (VA)	3600	4999	6000
Rated AC output power(W)	3600	4999	6000
Max. AC output current(A)	16.4	22.8	27.3
Rated AC output current(A)	15.7	21.8	26.1
Rated AC voltage(V)	L / N / PE, 220 / 230 / 240		
Rated grid frequency(Hz)	50 / 60		
THDI @Full load	< 3%		
Power factor at rated power/ Adjustable power factor	>0.99 (0.8 leading – 0.8 lagging)		
GEN Input Specification			
Max. AC input apparent power(VA)	7500	7500	7500

Technical Specification

Model	A3600S	A5000S	A6000S
Rated AC voltage(V)	L / N / PE, 220 / 230 / 240		
Rated GEN frequency (Hz)	50 / 60		
Backup Port Specification			
Max AC output apparent power(VA)	5500	5500	6000
Rated output power(W)	3600	5000	6000
Peak output power	7500W 10S	7500W 10S	7500W 10S
Max AC output current(A)	25	25	27.3
Rated voltage	L / N / PE, 220 V / 230 V / 240V		
Rated grid frequency(Hz)	50/60		
THDV @Linear load	<3%		
Backup switch time	≤10 ms		
Efficiency			
Max. efficiency(%)	97.5		
European efficiency(%)	96.9		
Protection & Function			
Grid monitoring	Yes		
DC reverse polarity protection	Yes		
AC short-circuit protection	Yes		
Leakage current protection	Yes		
DC switch	Yes		
Battery input reverse polarity protection	Yes		
Active anti-islanding method	Yes (Frequency Shift)		
Over Voltage Category	DC type II / AC type III		
General Information			
Topology (solar / battery)	Transformerless / Transformerless		
Degree of protection	IP65		
Dimensions* (W * H * D)(mm)	730 *555 *180 (±4)		
Weight*(kg)	42(±3)		
Installation type	Floor stand		

Technical Specification

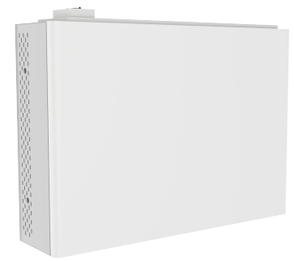
Model	A3600S	A5000S	A6000S
Cooling method	Natural cooling		
Noise(MAX)(dB)	< 30		
Ambient temperature(℃)	-20~60(>45 derating)		
Relative humidity (Non-condensing)(%)	15–95		
Max. operating altitude(m)	3000		
DI / DO	DI * 1 / DO * 2 / DRM		
DC connection type	MC4		
AC connection type	Plug and play connector		
Display	LCD+APP		
Monitor	RS485, WLAN, Ethernet, CAN		
Warranty*	10 Years		
Certification & Standard			
Certification	CB, CE, UKCA, SONCAP, RCM, ROHS		
Standard	IEC/EN 62109-1, IEC/EN 62109-2, IEC 62619, IEC 60730-1 Appendix H,IEC/EN 62368-1, EN IEC 61000-6-1/3, IEC 61 000-2-2, CISPR 11, IEC 60529, IEC 60068-2-52,AS/NZS 4777.2, IEC 60947.1, AS 60947.3, VDE-AR-N 4105, EN 50549-1,G98, G99, UN 38.3, MSDS		

Dimensions (W * H * D)*:Total dimension of inverter and control box.
Weight*:Total weight of inverter and control box.
Warranty*:Refer to the product warranty terms for details.

Technical Specification

Model	A3600S/A5000S/A6000S	
Hybrid inverter Rated AC output power Dimension (W*H*D) Weight	3600W / 5000W /6000W 730mm*555mm*180mm ≈50kg	
Control box	Built-In Grid / Backup / DC circuit Breaker	

Technical Specification

Model	B8900M-HAW	
High Voltage Battery Management System Operating Voltage Max. Charge / Discharge Current Operating Temperature Ingress Protection Dimension (W*H*D) Weight	135~583.2VDC 52A -20°C~60°C IP65 730*160*180mm 10kg	
Battery Module Battery Type Nominal Voltage Rated Capacity Rated Energy Max. Charge / Discharge Current Charge Temperature Discharge Temperature Ingress Protection Dimension (W*H*D) Weight	LiFePO4(LFP) 172.8V 52Ah 8.985kWh 52A 0°C~55°C -20°C~60°C IP65 730*510*180mm 83kg	
Battery Module Base Dimension (W*H*D) Weight	730*40*180mm 5.8kg	