

# 3.6-5kW Single-phase Hybrid All-in-one RESS

## A Series H3.6/4.6/5S

A3600S/A4600S/A5000S + B8900M-H

3.6kW/4.6kW/5kW

8.9kWh-17.8kWh / 8.9kWh-106.8kWh

- Inverter parallel function, up to 6 units
- Stackable integrated design, plug & play, no additional cable, saving 50% installation time
- Backup load transfer time  $\leq 10\text{ms}$
- 200% Oversized PV input, Max 10 kW
- Built-in change over switch, allows manual selection between Backup mode and By-pass mode for backup loads.
- Backup load works normally during remote upgrade and USB flash drive upgrade
- Visible energy tracking & remote upgrade on Hinen APP
- Smart load management (Secondary output port), intelligent load management and automated start/stop of diesel engines via dry contacts



## Technical Specification

Model	A3600S	A4600S	A5000S
<b>PV Input Specification</b>			
Recommended max. PV input power(W)	7200	9200	10000
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		
<b>Battery Specification</b>			
Battery voltage range(V)	80-460		
Max. charge / discharge current(continuous)(A)	35A/37A		
Max. charge / discharge power(continuous)(W)	5000 / 5000	5000 / 5000	5000 / 5000
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		
<b>Grid Port Specification</b>			
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	4600	4999
Rated AC output power(W)	3600	4600	4999
Max. AC output current(A)	16.4	21	22.8
Rated AC output current(A)	15.7	20	21.8
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)		
<b>GEN Input Specification</b>			
Max. AC input apparent power(VA)	7500	7500	7500

## Technical Specification

Model	A3600S	A4600S	A5000S
Rated AC voltage(V)	L / N / PE, 220 / 230 / 240		
Rated GEN frequency (Hz)	50 / 60		
<b>Backup Port Specification</b>			
Max AC output apparent power(VA)	5000	5000	5000
Rated output power(W)	3600	4600	5000
Peak output power	7500W 10S	7500W 10S	7500W 10S
Max AC output current(A)	25	25	25
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		
<b>Efficiency</b>			
Max. efficiency(%)	97.5		
European efficiency(%)	96.9		
<b>Protection &amp; Function</b>			
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		
Over Voltage Category	DC type II / AC type III		
<b>General Information</b>			
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	A4600S	A5000S
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		
<b>Certification &amp; Standard</b>			
Certification	CB, CE, UKCA, SONCAR, 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 61000-2-2, 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/ A4600S/ A5000S
Hybrid inverter Rated AC output power Dimension (W*H*D) Weight	3600W / 4600W / 5000W 730mm*555mm*180mm ≈50kg	
Control box	Built-In Grid / Backup / DC circuit Breaker	

## Technical Specification

Model		B8900M-H
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	LiFePO <sub>4</sub> (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	