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

## A Series H3.6/4.6/5S +B8900M-HA

A3600S/A4600S/A5000S

A3600S-E/A4600S-E/A5000S-E

8.9 kWh-17.8 kWh/8.9 kWh-106.8 kWh



- ◆ 200% Oversized PV input, Max 10 kW.
- ◆ Inverter parallel function, up to 6 units, Max. output power up to 30KW, massive energy storage of 106.8 kWh.
- ◆ Stackable integrated design, plug & play, no additional cable, saves 50% installation time.
- ◆ Built-in change over switch, allows manual selection between Backup mode and By-pass mode for backup loads.
- ◆ Intelligent load management and automated start/stop of diesel engines via dry contacts.
- ◆ Support dual power supply(Grid & Diesel Generator).
- ◆ Backup load works normally during remote upgrade and USB flash drive upgrade.
- ◆ Backup load transfer time  $\leq$  10ms.
- ◆ Visible energy tracking & remote upgrade on Hinen APP.



## Technical Specification

Item	Model	A3600S A3600S-E	A4600S A4600S-E	A5000S A5000S-E
<b>PV Input Specification</b>				
Recommended max. PV input power		7200W	9200W	10000W
Max. PV input voltage		550Vd.c.		
Startup input voltage		90Vd.c.		
Rated PV input voltage		360Vd.c.		
MPPT voltage range		100Vd.c. – 530Vd.c.		
No. of independent MPPT inputs		2		
No. of PV strings per MPPT		1 / 1		
Max. PV input current		16Ad.c. / 16Ad.c.		
Max. PV short-circuit current		20Ad.c. / 20Ad.c.		
Max. inverter backfeed current to the array		0Ad.c.		
<b>Battery Port Specification</b>				
Battery type		Li-ion Battery		
Battery voltage range		80Vd.c. – 460Vd.c.		
Max. charge / discharge current(continuous)		35Ad.c. / 37Ad.c.		
Max. charge / discharge power(continuous)		5000W / 5000W	5000W / 5000W	5000W / 5000W
Max. input short-circuit current		65Ad.c.		
Communication		CAN		
Charging strategy		BMS instructions		
Battery expansion		1~2 series-connected 8.9kWh high-voltage battery modules per cluster		
<b>Grid Port Specification</b>				
Max. AC input apparent power		7500VA	7500VA	7500VA
Max. AC input current		34.1Aa.c.	34.1Aa.c.	34.1Aa.c.
Max. AC output apparent power		3600VA	4600VA	4999VA
Rated AC output power		3600W	4600W	4999W
Max. AC output current		16.4Aa.c.	21Aa.c.	22.8Aa.c.
Rated AC output current		15.7Aa.c.	20Aa.c.	21.8Aa.c.
AC output inrush current		22.5Aa.c.		
AC input inrush current		22.0Aa.c.		
Max. AC input short-circuit current		70Aa.c.		
Rated AC voltage		L / N / PE, 220Va.c. / 230Va.c. / 240Va.c.		
Rated grid frequency		50Hz / 60Hz		

## Technical Specification

Item	Model	A3600S A3600S-E	A4600S A4600S-E	A5000S A5000S-E
THDI @Full load		< 3%		
Power factor at rated power / Adjustable power factor		> 0.99 (0.8 leading – 0.8 lagging)		
ICC		40A		
ICP		6KA		
<b>Backup Port Specification</b>				
Max AC output apparent power		5500VA	5500VA	5500VA
Rated output power		3600W	4600W	5000W
Peak output power		7500W 10S	7500W 10S	7500W 10S
Max AC output current		25Aa.c.	25Aa.c.	25Aa.c.
Max. AC input short-circuit current		70Aa.c.		
Rated voltage		L / N / PE, 220Va.c. / 230Va.c. / 240Va.c.		
Rated grid frequency		50Hz / 60Hz		
THDV @Linear load		< 3%		
Backup switch time		≤10ms		
<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		
Active anti-islanding method		yes (Frequency Shift)		
Over voltage category		DC type II / AC type III		
<b>General Information</b>				
Topology ( solar / battery )		Transformerless / Transformerless		
Degree of protection		IP65		
Pollution degree classification		External (PD3), Internal (PD2)		
Dimensions ( W * H * D )*		730 *555 *180 mm (±4mm)		
Weight*		42kg (±3KG)		

## Technical Specification





Item	Model	A3600S A3600S-E	A4600S A4600S-E	A5000S A5000S-E
Installation type		Floor stand		
Cooling method		Natural cooling		
Noise(MAX)		< 30dB		
Protective class		Class I		
Ambient temperature		-20°C ~ +60°C (> 45°C derating)		
Relative humidity (Non-condensing)		15% - 95%		
Max. operating altitude		3000m		
Wet locations classification		Yes		
Monitor		RS485, WLAN, Ethernet, CAN		
Display		LCD+APP		
DI / DO		DI * 1 / DO * 2 / DRM		
DC connection type		MC4		
AC connection type		Plug and play connector		
Warranty*		10 years		
Country of manufacture		Made in China		
<b>Certification &amp; Standard</b>				
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/ A4600S/ A5000S
Hybrid inverter Rated AC output power Dimension (W*H*D) Weight	1000W / 15000W / 20000W / 25000W 730mm*637mm*180mm ≈59kg 
Control box	Built-In Grid / Backup / DC circuit Breaker 
Model	B8900M-HA
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 