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3.6-5kW Single-phase AC-Coupled All-in-one RESS

A Series AC3.6/4.6/5S +B8900M-HA

AC3600S/AC4600S/AC5000S

AC3600S-E/AC4600S-E/AC5000S-E

8.9 kWh-17.8 kWh/8.9 kWh-106.8 kWh



- ◆ Grid-Forming function.
- ◆ Inverter parallel function, up to 6 units, Max. output power up to 30KW, massive energy storage of 106.8 kWh.
- ◆ Supports retrofitting of existing PV energy storage systems, compatible with any brands' PV inverters.
- ◆ Supports two CT inputs for intelligent control and optimized energy utilization.
- ◆ Intelligent load management and automated start/stop of diesel engines via dry contacts.
- ◆ Intelligent on/ off-grid mode, backup load transfer time ≤ 10 ms.
- ◆ Stackable integrated design with intelligent control box and battery module, simpler and more efficient installation.
- ◆ Visible energy tracking & remote upgrade on Hinen APP.



Technical Specification

Item	Model	AC3600S AC3600S-E	AC4600S AC4600S-E	AC5000S AC5000S-E
Battery Port Specification				
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			
Grid Port Specification				
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	
Rated AC output apparent power	3600VA	4600VA	4999VA	
Max. AC output current	16.4Aa.c.	21Aa.c.	22.8Aa.c.	
Rated AC output current	15.7Aa.c.	20Aa.c.	21.8Aa.c.	
Max AC input short-circuit current	70Aa.c.			
Rated AC voltage	L / N / PE,230Va.c			
Rated grid frequency	50Hz / 60Hz			
THDI @Full load	< 3%			
Power factor at rated power / Adjustable power factor	>0.99 (0.8 leading - 0.8 lagging)			
ICC	40A			
ICP	6kA			
Backup Port Specification				
Max. AC output apparent power	5500VA	5500VA	5500VA	
Rated output power	3600W	4600W	5000W	
Rated AC output apparent power	3600VA	3600VA	3600VA	
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 AC output voltage	L / N / PE,230Va.c			
Rated grid frequency	50 Hz / 60Hz			

Technical Specification




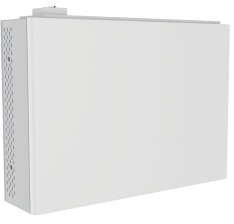
Item	Model	AC3600S AC3600S-E	AC4600S AC4600S-E	AC5000S AC5000S-E
THDV @Linear load	< 3%			
Backup switch time	≤10ms			
Efficiency				
Max. efficiency	97.5%			
European efficiency	96.9%			
Protection & Function				
Grid monitoring	Yes			
DC reverse polarity protection	Yes			
AC short-circuit protection	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			
Ingress protection rating	IP65			
Pollution degree classification	External (PD3), Internal (PD2)			
Dimensions (W * H * D)*	730 *555 *180 mm (±4mm)			
Weight*	39kg (±3KG)			
Mounting method	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			

Technical Specification

Item	Model	AC3600S AC3600S-E	AC4600S AC4600S-E	AC5000S AC5000S-E
Warranty*		10 years		
Country of manufacture		Made in China		
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 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	AC3600S/AC4600S/AC5000S/	
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 ₄ (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	