

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

A Series AC3.6/4.6/5S

AC3600S/AC4600S/AC5000S + B7700M-H

3.6kW/4.6kW/5kW
7.7-46.2 kWh / 15.4-92.4 kWh

- Grid-Forming function
- Inverter parallel function, up to 6 units; Battery parallel function, up to 6 clusters per inverter
- Supports retrofitting of existing PV energy storage systems, compatible with any brands' PV inverters
- 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
- Supports two CT inputs for intelligent control and optimized energy utilization
- Intelligent load management and automated start/stop of diesel engines via dry contacts



Technical Specification

Model	AC3600S	AC4600S	AC5000S
Battery Specification			
Battery voltage range(V)	80-460		
Max. charge / discharge current (continuous)(A)	35/37		
Max. charge / discharge power (continuous)(W)	5000/5000	5000/5000	5000/5000
Communication	CAN		
Charging strategy	BMS instructions		
Battery expansion	1~2 series-connected 7.7kWh high-voltage battery modules per cluster with up to 6 clusters connected in parallel per inverter		
Grid Port Specification			
Max. AC input apparent power(VA)	7500	7500	7500
Max. AC input current(A)	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	L / N / PE, 220 V / 230 V / 240V		
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)		
Backup Port Specification			
Max AC output apparent power(VA)	5500	5500	5500
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		
Efficiency			
Max. efficiency(%)	97.5		
European efficiency(%)	96.9		

Technical Specification

Model	AC3600S	AC4600S	AC5000S
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	
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)		39(±3)	
Installation type		Floor stand	
Cooling method		Natural cooling	
Noise(MAX)(dB)		< 30	
Ambient temperature(°C)		-20°C ~ +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, 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	AC3600S/AC4600S/AC5000S/
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
Model B7700M-H	
High Voltage Battery Management System Operating Voltage Max. Charge / Discharge Current Operating Temperature Ingress Protection Dimension (W*H*D) Weight	135~583.2VDC 45A -20°C~60°C IP65 730*160*180mm ≈11kg
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 45Ah 7.776kWh 45A 0~55°C -20°C~60°C IP65 730*510*180mm ≈87kg
Battery Module Base Dimension (W*H*D) Weight	730*40*180mm ≈5kg