

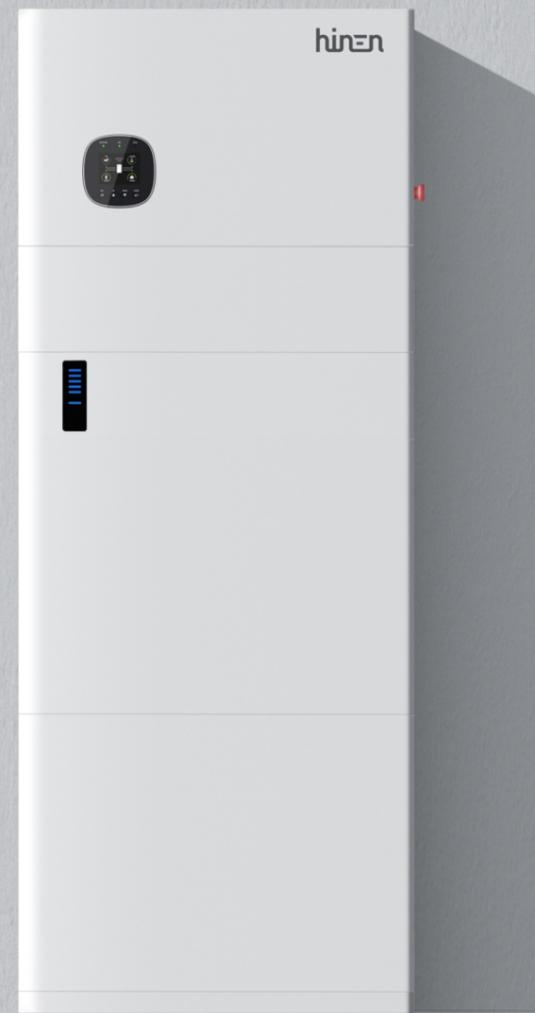
8-15kW Single-phase Hybrid All-in-one RESS

A Series H8/10/12/15S

A8000S/A10000S/A12000S/A15000S + B7700M-H

8kW/10kW/12kW/15kW
7.7-46.2 kWh / 15.4-92.4 kWh

- 4 MPPT inputs, 150% Oversized PV input
- Inverter parallel function, up to 6 units; Battery parallel function, up to 6 clusters per inverter
- Stackable integrated design, plug & play, no additional cable, saving 50% installation time
- Intelligent load management and automated start/stop of diesel engines via dry contacts
- 230V/ 63A off-grid output power up to 15KW, support full load power supply for home
- Backup load transfer time ≤ 10 ms
- Built-in change over switch, allows manual selection between Backup mode and By-pass mode for backup loads.
- Support dual power supply(Grid & Diesel Generator)



Technical Specification

Model	A8000S	A10000S	A12000S	A15000S
PV Input Specification				
Recommended max. PV input power(W)	16000	20000	22500	22500
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	4	4	4	4
No. of PV strings per MPPT	1/1/1/1	1/1/1/1	1/1/1/1	1/1/1/1
Max. PV input current(A)	16 / 16 / 16 / 16	16 / 16 / 16 / 16	16 / 16 / 16 / 16	16/16/16/16
Max. DC short-circuit current (A)	20 / 20 / 20 / 20	20 / 20 / 20 / 20	20 / 20 / 20 / 20	20 / 20 / 20 / 20
Battery Input Specification				
Battery voltage range(V)	80-460			
Max. charge / discharge current(A)	45 / 47			
Max. charge / discharge power(W)	15000 / 15000	15000 / 15000	15000 / 15000	15000 / 15000
Communication	CAN			
Charging strategy	BMS instructions			
Battery Expansion	1 ~ 2 series-connected 7.7 kWh high-voltage battery modules per cluster with up to 6 clusters connected in parallel per inverter			
Grid Port Specification				
Max. AC power from grid(VA)	16500	16500	16500	16500
Max.AC input current(A)	75	75	75	75
Rated AC output power(W)	7999	9999	12000	15000
Max. AC output apparent power(VA)	7999	9999	12000	15000
Max. AC output current(A)	36.4	45.5	54.6	68.2
Rated AC output current(A)	34.8	43.5	52.2	65.2
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)			
GEN Port Specification				
Max. AC input apparent power (VA)	15000	15000	15000	15000

Technical Specification

Model	A8000S	A10000S	A12000S	A15000S
Rated AC voltage	L / N / PE, 220 V / 230 V / 240V			
Rated GEN frequency(Hz)	50/ 60			
Backup Port Specification				
Max AC output apparent power(VA)	15000	15000	15000	15000
Rated output power(W)	7999	9999	12000	15000
Peak output power	16500W, 10s			
Max AC output current(A)	68.2	68.2	68.2	68.2
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(%)	96.8			
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			
Surge protection	DC type II / AC type III			
General Information				
Topology (solar / battery)	Transformerless / Transformerless			
Degree of protection	IP65			
Dimensions* (W * H * D)(mm)	730 *637 *180(±4)			
Weight*(kg)	59.2(±1)			
Installation type	Floor stand			
Cooling method	Fan cooling			

* The AC voltage and frequency range may vary depending on specific country grid standard.

Technical Specification

Model	A8000S	A10000S	A12000S	A15000S
Noise(MAX)(dB)	< 45			
Ambient temperature range (°C)	-20 ~ 60(>45 derating)			
Relative humidity (Non-condensing)(%)	15 - 95			
DI / DO	DI * 1 / DO * 2 / DRM			
DC connection type	MC4			
AC connection type	Plug and play connector			
Max. operating altitude(m)	3000			
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 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	A8000S/ A10000S/ A12000S/ A15000S	
Hybrid inverter Rated AC output power Dimension (W*H*D) Weight	8000W / 10000W / 12000W / 15000W 730mm*637mm*180mm ≈61kg	
Control box	Built-In Grid / Backup / DC circuit Breaker	

Technical Specification

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	LiFePO ₄ (LFP) 172.8V 45Ah 7.776kWh 45A 0~55°C -20~60°C IP65 730*510*180mm ≈87kg	
Battery Module Base Dimension (W*H*D) Weight	730*40*180mm ≈5kg	