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8-10kW Single-phase Hybrid All-in-one RESS

A Series H8/10S +B8900M-HA

A8000S/A10000S

A8000S-E/A10000S-E

8.9 kWh-17.8 kWh/8.9 kWh-106.8 kWh



- ◆ 4 MPPT inputs, 200% Oversized PV input, Max 20 kW.
- ◆ Inverter parallel function, up to 6 units, Max. output power up to 90KW, massive energy storage of 106.8 kWh.
- ◆ Stackable integrated design, plug & play, no additional cable, saves 50% installation time.
- ◆ 230V/ 63A off-grid output power up to 15KW, support full load power supply for home.
- ◆ Support dual power supply(Grid & Diesel Generator).
- ◆ Smart load management (Secondary output port), intelligent load management and automated start/stop of diesel engines via dry contacts.
- ◆ Built-in change over switch, allows manual selection between Backup mode and By-pass mode for backup loads.
- ◆ Backup load transfer time $\leq 10\text{ms}$.



Technical Specification

Item	Model	A8000S A8000S-E	A10000S A10000S-E
PV Input Specification			
Recommended max. PV input power		16000W	20000W
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		4	4
No. of PV strings per MPPT		1/1/1/1	1/1/1/1
Max. PV input current		16/16/16/16 Ad.c.	16/16/16/16 Ad.c.
Max. PV short-circuit current		20/20/20/20 Ad.c.	20/20/20/20 Ad.c.
Max. inverter backfeed current to the array		0Ad.c.	
Battery Port Specification			
Battery type		Li-ion Battery	
Battery voltage range		80Vd.c. – 460Vd.c.	
Max. charge / discharge current		45Ad.c. / 47Ad.c.	
Max. charge / discharge power		15000W/15000W	15000W/15000W
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		16500VA	16500VA
Max.AC input current		72Aa.c.	72Aa.c.
Max. AC output apparent power		7999VA	9999VA
Rated AC output power		7999W	9999W
Max. AC output current		36.4Aa.c.	45.5Aa.c.
Rated AC output current		34.8Aa.c.	43.5Aa.c.
AC output inrush current		70.8Aa.c.	
AC input inrush current		48.3Aa.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)	

Technical Specification

Item	Model	A8000S A8000S-E	A10000S A10000S-E
Backup Port Specification			
Max AC output apparent power		15000VA	15000VA
Rated output power		7999W	9999W
Peak output power		16500W, 10s	
Max AC output current		65.2Aa.c.	65.2Aa.c.
Rated voltage		L / N / PE, 230Va.c.	
Rated grid frequency		50Hz / 60Hz	
THDV @Linear load		< 3%	
Backup switch time		≤10ms	
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	
Active anti-islanding method		yes (Frequency Shift)	
Over voltage category		DC type II / AC type III	
General Information			
Topology (solar / battery)		PV non-isolated, battery non-isolated	
Ingress protection rating		IP65	
Pollution degree classification		External (PD3), Internal (PD2)	
Dimensions (W * H * D)*		730 *637 *180mm (±4mm)	
Weight*		59.2KG (±1KG)	
Installation type		Floor stand	
Cooling method		Fan cooling	
Noise(MAX)		< 45dB	
Protective class		Class I	
Ambient temperature		-20℃ ~ +60℃ (> 45℃ derating)	

Technical Specification

Item	Model	A8000S A8000S-E	A10000S A10000S-E
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	
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 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
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		LiFePO4(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 