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10-25kW Three-phase Hybrid All-in-one RESS

A Series H10/15/20/25T +B8900M-HA

A10000T/A15000T/A20000T/A25000T

A10000T-E/A15000T-E/A20000T-E/A25000T-E

8.9 kWh-26.7 kWh/8.9 kWh-160.2 kWh



- ◆ 4 MPPT inputs, 120% Oversized PV input, Max 30 kW.
- ◆ Inverter parallel function, up to 6 units, Max. output power up to 150KW, massive energy storage of 160.2 kWh.
- ◆ Stackable integrated design, plug & play, no additional cable, saves 50% installation time.
- ◆ 120~600V ultra-wide battery voltage range, realizing 20KW charging & discharging capacity of one way battery.
- ◆ Support 100% three-phase unbalanced output.
- ◆ The phase sequence does not matter, ensuring easier and more flexible installation.
- ◆ Built-in change over switch, allows manual selection between Backup mode and By-pass mode for backup loads.
- ◆ Intelligent load management via dry contacts.
- ◆ Backup load transfer time $\leq 10\text{ms}$.



Technical Specification

Item	Model	A10000T A10000T-E	A15000T A15000T-E	A20000T A20000T-E	A25000T A25000T-E
PV Input Specification					
Recommended max. PV input power		30000W	30000W	30000W	30000W
Max. PV input voltage		1000d.c.V			
Startup voltage		120d.c.V			
Rated PV input voltage		600d.c.V			
PV voltage range		140d.c.V - 950d.c.V			
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. input current per string		16/16/16/16 Ad.c.	16/16/16/16 Ad.c.	16/16/16/16 Ad.c.	16/16/16/16 Ad.c.
Max. short-circuit current		22/22/22/22 Ad.c.	22/22/22/22 Ad.c.	22/22/22/22 Ad.c.	22/22/22/22 Ad.c.
Max. inverter backfeed current to the array		0Ad.c.			
Battery Port Specification					
Battery type		Li-ion Battery			
Battery voltage		120d.c.V - 600d.c.V			
Max. charge / discharge current		45Ad.c./45Ad.c.			
Max. charge / discharge power		20000W/20000W	20000W/20000W	20000W/20000W	20000W/20000W
Max. short-circuit input current		210Ad.c.			
Communication		CAN			
Charging strategy		BMS instructions			
Battery expansion		1~3 series-connected 8.9kWh high-voltage battery modules per cluster			
Grid Port Specification					
Rated AC input apparent power		9999VA	15000VA	20000VA	20000VA
Max. AC input current		30.4Aa.c.	30.4Aa.c.	30.4Aa.c.	38Aa.c.
Rated AC output power		9999W	15000W	20000W	25000W
Rated AC output apparent power		9999VA	15000VA	20000VA	25000VA
Max. AC output current		15.2Aa.c.	22.8Aa.c.	30.4Aa.c.	38Aa.c.
Rated AC output current		14.5Aa.c.	21.8Aa.c.	29Aa.c.	36.3Aa.c.
AC output inrush current		68.8Aa.c.			
Max. backfeed short-circuit current		150Aa.c.			
AC input inrush current		56Aa.c.			
Rated AC voltage		400Va.c./230Va.c., 3L/N/PE			
Rated grid frequency		50Hz/60Hz			

Technical Specification

Item	Model	A10000T A10000T-E	A15000T A15000T-E	A20000T A20000T-E	A25000T A25000T-E
THDI @Full load	< 3%				
Power factor at rated power / Adjustable power factor	> 0.99 (0.8 leading – 0.8 lagging)				
Backup Port Specification					
Rated AC output apparent power	10000VA	15000VA	20000VA	20000VA	
Rated AC output power	10000W	15000W	20000W	20000W	
Max. AC output current	29Aa.c.	29Aa.c.	29Aa.c.	29Aa.c.	
Peak AC output power	20000W	20000W	20000W	20000W	
AC nominal voltage	400Va.c./230Va.c., 3L/N/PE				
AC nominal frequency	50Hz/60Hz				
THDV @Linear load	< 3%				
Back-up switch time	< 10ms				
Efficiency					
Max. efficiency	98.0%	98.0%	98.0%	98.0%	
European efficiency	97.4%	97.4%	97.4%	97.4%	
Protection & Function					
DC switch	yes				
PV reverse polarity protection	yes				
BAT reverse protection	yes				
Output AC overcurrent protection	yes				
Output AC overvoltage Protection	yes				
Anti-islanding protection	yes				
Residual current detection	yes				
Insulation resistance detection	yes				
Active anti-islanding method	yes (Frequency Shift)				
Over voltage category	DC type II/AC type III				
Protective class	Class I				
General Information					
Topology (solar / battery)	Transformerless/Transformerless				
Ingress protection rating	IP65				
Pollution degree classification	External (PD3), Internal (PD2)				
Dimensions (W * H * D)*	730 *637 *180 mm (±4mm)				
Weight*	59KG (±3KG)				

Technical Specification

Item	Model	A10000T A10000T-E	A15000T A15000T-E	A20000T A20000T-E	A25000T A25000T-E
Installation type		Floor stand			
Operating ambient temperature		-20 °C - 60 °C (> 45°C derating)			
Relative humidity (Non-condensing)		0% - 100%			
Cooling method		Fan cooling			
Noise(MAX)		< 45dB			
Max. operating altitude		3000m			
Wet locations classification		Yes			
Display		LCD+APP			
Monitor		RS485/WIFI			
DC connection		MC4			
AC connection		5P 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	A10000T/A15000T/A20000T/A25000T	
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	