

Single Phase Hybrid Inverter 6-10kW(Grid connection)



Maximum 208A charge and discharge current



The maximum number of parallel machines is 16



MPPT current 44A, supporting high-power components



IP66 high protection level



Support the connection of diesel electric and motor loads



The critical load UPS and off grid switching time is less than 10ms



Product Mode	ESS2-6K1P-02-LV	ESS2-8K1P-02-LV	ESS2-10K1P-02-LV
Input DC(PV)			
Recommended max. PV power	9kW	12kW	15kW
Max. input voltage		500V	
Rated input voltage		360V	
MPPT voltage range		90-425V	
Max. input current		44A/21A	
Mppt number/Max input strings number		2/3	
Input/Output DC(Battery)			
Battery type		Lead-acid/Li-Ion	
Battery voltage range		40-60V	
Max. charge/discharge power	6kW	8kW	10kW
Max. charge/discharge current	142A	190A	208A
Communication mode		RS485/CAN	
Charging curve		Three-paragraph	
AC(Off Grid)			
Max. output power	6kW	8kW	10kW
Switch time of grid-connected and off-grid		<10ms	
THDi		<2%(Linear load)	
AC(On Grid)			
Rated output power	6kW	8kW	10kW
Rated grid output voltage		LN/PE, 220V/230V	
Rated grid output frequency		50Hz/60Hz	
Max. output current	30A	40A	50A
Power factor		>0.99(Lead 0.8-lag 0.8)	
THDi		<2%(Full load)	
Efficiency			
Max. efficiency		>97.5%	
Protection function			
Island protection		Available	
Input Protection for reverse connection		Available	
AFCI protection		Optional	
System Data			
Maximum number of parallel machines		16	
Communication Port		RS485/Wi-Fi(Optional)/4G(Optional)/LAN(Optional)	
Dimensions		620*350*196 mm	
Weight	25.7kg		27kg
Operating ambient temperature		-40 ~ +60°C(>45°C Reduction)	
Degree of protection		IP66	
Cooling concept	Natural		Intelligent air-cooled