

Single Phase Hybrid Inverter

Hybrid inverters can convert direct current into alternating current and store energy in batteries. Can be used to optimize self-consumption. Batteries can store it for future use or feed it into the public grid. The working mode depends on the photovoltaic energy and user preferences. For example, during peak electricity usage periods, inverters can prioritize the use of electricity from batteries to reduce the burden on the power grid. When the electricity price on the grid is low, inverters can store excess electricity for future use.



Product Core Highlights



Maximum 208A charge and discharge current



MPPT current 44A, supporting high-power components



Support the connection of diesel electric and motor loads



The maximum number of parallel machines is 16



IP66 high protection level



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)			
Recommendedmax.PV power	9kW	12kW	15kW
Max.input voltage	500V		
Rated input voltage	360V		
MPPT voltage range	90-425V		
Max.inputcurren	44A/21A		
Mppt number/Maxinput strings number	2/3		
Input/Output DC(Battery)			
Battery type	Lead-acid/Li-Ion		
Bttery voltage range	40-60V		
Max.charge/discharge power	6kW	8kW	10kW
Max.charge/discharge curren	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 curren	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	Optiona		
System Data			
Maximum number of parallel machines	16		
Communication Por	RS485/Wi-Fi(Optionala)/4G(Optionala)/LAN(Optional)		
Dimensions	620*350*196 mm		
Weight	25.7kg		27kg
Operating ambient temperature	-40 ~ +60°C(>45°CReduction)		
Degree of protection	IP66		
Cooling concept	Natural		Intelligent air-cooled