

Single Phase Hybrid Inverter

3-6kW(Grid connection)



Maximum charging and discharging current of 120A battery



Maximum parallel operation of 16 units



MPPT current 15A, supporting high-power components



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



Support integration of diesel and electricity



Fanless natural heat dissipation



Product Model	ESS1-3K1P-02-LV	ESS1-3.6K1P-02-LV	ESS1-4.6K1P-02-LV	ESS1-5K1P-02-LV	ESS1-6K1P-02-LV
Input DC(PV)					
Recommended max.PV power	5kW		5.5kW	8kW	
Max.input voltage			580V		
Rated input voltage			350V		
Start-up voltage			120V		
MPPT voltage range	90-520V		120-520V		
Max.input current			15A/15A		
Max.short circuit current			22.5A/22.5A		
MPPT number/Max.input strings number			2/2		
Input/Output oc(Battery)					
Battery type	Lead-acid/Li-ion				
Battery voltage range	42-58V				
Max.charge/discharge power	3kW		5kW		
Max.charge/discharge current	72A		120A		
Communication Mode	RS485/CAN				
Output Ac					
Rated output power	3kW	3.6kW	4.6kW	5kW	6kW
Max.output power	3.3kW	4kW	4.6kW	5.5kW	6.6kW
Max.apparent output power	3.3kVA	4kVA	4.6kVA	5.5kVA	6.6kVA
Rated output current	13.6A	16.4A	20.9A	22.7A	27.3A
Max.output current	15.1A	18.2A	23.2A	25.2A	30A
Switch time of grid-connected and off-grid	<10ms				
Rated grid output voltage/frequency	L/N/PE 220V/230V 50Hz/60Hz				
Power factor	0.8 leading ...0.8 lagging				
THDv(@linear load)	<3%				
THDi	<2%				
Input AC					
Max.apparent input power	3.3KVA	4KVA	4.6KVA	5.5KVA	6.6KVA
Max.input current	15.1A	18.2A	23.2A	25.2A	30A
Rated grid input voltage/frequency	L/N/PE 220V/230V 50Hz/60Hz				
Efficiency					
Max.efficiency	97.50%				
Standard					
Safety	IEC62109-1/-2				
EMC	EN61000-6-1/EN61000-6-3				
Basic parameters					
Dimensions (W*H*D)	362mmx546mmx252mm				
Cooling concept	Natural				
Weight	21.5kg				
Degree ofprotection	IP66				
Operating ambient temperature	-25~+60 ℃ (>45 derating)				
Max.operation attitude	3000m				
Communication Mode	RS485/WIFI/GPRS/LAN				