Three-phase Low-voltage hybrid inverter

8-12kW

- Max. charging/discharging current of 240A
- Supports up to 10 devices running in parallel
- IP66 high protection level
- Support three-phase unbalanced loads
- Support diesel engine access
- AC coupling to retrofit existing solar system



Product Model	ESS2-8K3P-02-LV	ESS2-10K3P-02-LV	ESS2-12K3P-02-LV
Input DC(PV)			
Max PV input	800V		
MPPT voltage range	200-650V		
Max. input current	20A	26A	
Max. short circuit current	30A	39A	
Recommended max. PV power	12.8kW	16kW	19.2kW
MPPT number/Max. input strings number	2/1+1	2/2+2	
Input/Output DC(Battery)			
Battery type	Li-ion battery or lead-acid		
Battery voltage range	40V~ 60V		
Maximum charging and discharging current	190A/190A	210A/210A	240A/240A
Number of Battery Input	1		
Output AC（Off Grid）			
Rated grid output voltage/frequency	3L/N/PE 380/400Va.c.		
Max. output power	8.8kW	11kW	13.2kW
Max. apparent output power	8.8kVA	11kVA	13.2kVA
Max. output current	12.8A	16A	19.2A
Output AC（On Grid）			
Rated grid voltage/frequency	3L/N/PE 380/400V 50/60Hz		
Rated output power	8kW	10kW	12kW
Max. output power	8.8kW	11W	13.2kW
Max. apparent output power	8.8kVA	11kVA	13.2kVA
Max. output current	12.8A	16A	19.2A
Power factor	>0.99(0.8 leading to 0.8 lagging)		
Input AC			
Rated voltage	3L/N/PE 380V/400V 50Hz/60Hz		
Max. input current	13.4A	16.7A	20A
Interface			
Dispaly	LCD+LED		
Communication interface	RS232,RS485,CAN		
Monitor mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)		
System Data			
Ingress protection	IP66		
Operating ambient temperature	-40 ~ 60℃(>45℃derating)		
Cooling concept	Intelligent air-cooled		
Max. operation altitude	≤3000m		
Noise	≤55dB		
Dimensions (W*H*D)	350*660*260mm		

Three-phase Low-voltage hybrid inverter

15-20kW

- Max. charging/discharging current of 240A
- Supports up to 10 devices running in parallel
- IP66 high protection level
- Support three-phase unbalanced loads
- Support diesel engine access
- AC coupling to retrofit existing solar system



Product Model	ESS2-15K3P-02-LV	ESS2-18K3P-02-LV	ESS2-20K3P-02-LV
Input DC(PV)			
Max PV input		800V	
MPPT voltage range		160-650V	
Max. input current		36A	
Max. short circuit current		54A/54A	
Recommended max. PV power	24kW	28.8kW	32kW
MPPT number/Max. input strings number		2/2+2	
Input/Output DC(Battery)			
Battery type		Li-ion battery or lead-acid	
Battery voltage range		40V~ 60V	
Maximum charging and discharging current	280A/280A	330A/330A	350A/350A
Number of Battery Input		2	
Output AC（Off Grid）			
Rated grid output voltage/frequency		3L/N/PE 380/400Vac	
Max. output power	16.5kW	19.8kW	22kW
Max. apparent output power	16.5kVA	19.8kVA	22kVA
Max. output current	24A	28.7A	31.9A
Output AC（On Grid）			
Rated grid voltage/frequency		3L/N/PE 380/400V 50/60Hz	
Rated output power	15kW	18kW	20kW
Max. output power	16.5kW	19.8W	22kW
Max. apparent output power	16.5kVA	19.8kVA	22kVA
Max. output current	24A	28.7A	31.9A
Power factor		>0.99(0.8 leading to 0.8 lagging)	
Input AC			
Rated voltage		3L/N/PE 380V/400V 50Hz/60Hz	
Max. input current	25A	30A	33.4A
Interface			
Dispaly		LCD+LED	
Communication interface		RS232,RS485,CAN	
Monitor mode		GPRS/WIFI/Bluetooth/4G/LAN(optional)	
System Data			
Ingress protection		IP66	
Operating ambient temperature		-40 ~ 60℃(>45℃derating)	
Cooling concept		Intelligent air-cooled	
Max. operation altitude		≤3000m	
Noise		≤60dB	
Dimensions (W*H*D)		435*750*268mm	