



Off grid inverter, is the core component of photovoltaic power generation systems. It will turn dc power into ac power, and control photovoltaic modules to charge for battery, mainly apply in photovoltaic power station, light, oil, storage complementary power generation system and household photovoltaic power supply system, etc. High conversion efficiency, excellent performance advantages, for the traffic inconvenience, bad environments mountain, pastoral areas, frontier, island and so on without electricity areas use new energy generate power, provide absolutely reliable guarantee.

Devices adopt advanced components

Chip use the American Microchip microprocessor control, main circuit USES German Infineon IGBT/Germany IXYS MOSFET

Reliable and safety, complete protection function

With dc input, UVL(undervoltage protection), polarity reverse protection, ac output power, short circuit protection, machine inside overheat protection, alarm and so on function.

Double control strategy, high efficiency power generation

Use MPPT control method and current voltage double closed control strategy, can make the photovoltaic battery maximum charge to storage battery, greatly improved efficiency.

Waveform distortion small, switching time short

Pure sine wave output, small waveform distortion, stable voltage, short switching time, can meet computer and so on high-end devices demands.

Friendly human-machine interface

LCD display function, can timely monitor and display battery voltage, charging current, load current, ambient temperature, ac output voltage, ac output current, generated power and so on parameters and history fault record.

Effective to prevent wrong operation

With password protection function, which can effectively prevent laypeople wrong operation to the controller.

Standard communication interface

Provide standard RS485 interface

DC USB output interface (12VDC/24VDC series)

Can directly charge for mobile and other electrical appliances.

Technical Parameters (12VDC/24VDC)

Model	SN-0.3KBS	SN-0.5KBS	SN-0.3KCS	SN-0.5KCS	SN-0.8KCS
Rated Capacity(KVA)	0.3	0.5	0.3	0.5	0.8
DC input side					
Nominal Voltage(VDC)	12	12	24	24	24
Undertension(VDC)	10.8	10.8	21.6	21.6	21.6
Under Voltage Recovery P	12.8	12.8	25.6	25.6	25.6
Over Voltage Point(VDC)	17.5	17.5	35	35	35
Overpressure Recovery Poi	16.5	16.5	33	33	33
AC Input(Optional)					
Voltage Range(VAC)	No Grid Switch Function			170~260 (±2%)	
Input Frequency(HZ)				50±1 (±3%)	
Switch Mode (Optional)				Grid First/Inverter First	
Switching Time(MS)				≤10	
AC Output					
Output Power Rating(KVA)	0.3	0.5	0.3	0.5	0.8
Rated Voltage(VAC)	220±5% (VAC)				
Rated Frequency(Hz)	50/60(±3%)				
Output Wave	Sine Wave				
Overload Capability	120% 1Minutes, 120%~150% 1Seconds				
THD	≤3%				
Quiescent Dissipation	≤0.1A				
Waveform Distortion Rate	≤3% (Linear load)				
Dynamic Response(1~10	5%				
Peak Efficiency	≥80%	≥80%	≥85%	≥85%	≥85%
Peak Factor (CF)	3:1				
DC Output					
Output Mode	USB standard interface, DC standard plug			USB standard interface	
Rated Voltage (VDC)	5, 12			5	
Rated Current (A)	0.2, 5			0.2	
Environment Specifications					
Noisc level (dB, 1M)	≤50				
Ambient Temperature(°C)	-10~+45				
Storage Conditions (°C)	-25~+55				
Ambient thumidity	0~95% (Non-condensate)				
Altitude (m)	≤5000 (More than 1000 m, in accordance with relevant provisions of the GB / 3859.2 derating)				
Protection function	Under voltage, over voltage, overload, short circuit, overheating, etc				
Display Mode	Light/header				
CommunicationFunction	RS485 (choosable)				
Heat Dispatch Method	Forced Cooling				
structural parameter					
IP Grade	IP20				
Size (D*W*H mm)	300*180*295	300*180*295	300*180*295	300*180*295	300*180*295
Weight (Kg)	8	12	8	12	12