

Series Inverter (110Vdc/220Vdc)

● Specification

- ◆ N+1 Parallel connection redundancy design
- ◆ Using 32 Bit DSP Digital and high frequency SPWM technology
- ◆ Parallel connection technology without master/slave definition
- ◆ Choose inverter priority or bypass priority easily
- ◆ Real-time data acquisition and remote communication



Series Inverter (110Vdc/220Vdc)

Model	2203KVAS	2205KVAS	2206KVAS	8KVAS	10KVAS
Phase	Single Phase				
Parallel Function	support parallel				
Rated Power	3KVA 2400W	5KVA 4000W	6KVA 4800W	8KVA 6400W	10KVA 8000W
Voltage Range	220Vac 176~264VAC				
Frequency Range	40Hz~55Hz@50Hz system				
Battery					
DC Input Voltage	110Vdc/220Vdc			220Vdc	
DC Voltage Range	110Vdc@92Vdc~142Vdc; 220Vdc@185~285Vdc				
Battery Type	Lithium Batteries, Lead Acid batteries, Colloidal Batteries				
Output					
Output Voltage	220Vac				
Output frequency	50Hz(±0.1%)				
Load regulation	<3%				
Frequency accuracy	<0.1%				
Peak factor	3:1				
Parallel uneven flow	<3% rated current RMS				
Dynamic response	Voltage transient range<3%, transient response recovery time≤60ms (load from 0 to 100)				
Overload capacity	Load current < 105%, continuous work Load current 105~125%, continuous work 10min shutdown Load current 125~150%, continuous work after 1min shutdown Load current > 150%, after 20ms shutdown				
Inversion Efficiency (80% resistive load)	≥85% (80% linear load)				
Transfer Time	≤8ms				
Working Environment					
Dielectric strength	2000Vac/10mA/60s				
Humidity	0~90%, no moisture condensation				
Operating altitude(m)	≤3000m, 1500~3000m, 1% decrease in output for every 100m increase				
Noise(1m)	<45dB				
Communication	RS485				

Series Inverter Cabinet (110Vdc/220Vdc)

● Specification

- ◆ "-Each inverter module boasts a compact 2U height for optimized space utilization.
- ◆ -Supports a maximum of 10 parallel-connected modules for enhanced power output.
- ◆ -High-efficiency power conversion to minimize energy loss.
- ◆ -Intelligent thermal management ensures stable and reliable operation.
- ◆ -Robust and durable construction ensures long-term performance and reliability.



Series Inverter Cabinet (110Vdc/220Vdc)

Model	12KVA	18KVA	24KVA	30KVA	42KVA	220V/48KVA	220V/48KVA	220V/80KVA
Phase	Single Phase							
Rated Power	9600W	14.4KW	19.2KW	24KW	33.6KW	38.4KW	51.2KW	64KW
Module quantities	2*6KVA	3*6KVA	4*6KVA	5*6KVA	7*6KVA	8*6KVA	8*8KVA	8*10KVA
Bypass								
Type	STS							
Voltage	220VAC							
Frequency Range	50Hz							
Overload capacity	"Load current < 105%, continuous work Load current > 105%, continuous work 60ms shutdown"							
Battery								
DC Input Voltage	110Vdc/220Vdc						220Vdc	
Battery Quantities(12V)	9/10/18(adjustable)							
Charging Mode	CC/CV							
DC Voltage Range	110Vdc@92Vdc~142Vdc; 220Vdc@185~285Vdc							
Battery Type	Lithium Batteries, Lead Acid batteries							
Output								
Output Voltage	220Vac							
Output frequency	50Hz							
Load regulation	< 3%							
Frequency accuracy	< 0.1%							
Peak factor	3:1							
Parallel uneven flow	< 3% rated current RMS							
Dynamic response	Voltage transient range < 3%, transient response recovery time ≤ 60ms (load from 0 to 100)							
Overload capacity	"Load current < 105%, continuous work Load current 105 ~ 125%, continuous work 10min shutdown Load current 125 ~ 150%, continuous work after 1min shutdown Load current > 150%, after 20ms shutdown"							
Inversion Efficiency (80% resistive load)	≥ 85% (80% linear load)							
Transfer	5~10ms							
Environment&Physical								
Dielectric strength	2000Vac/10mA/60s							
Humidity	0~90%, no moisture condensation							
Operating altitude(m)	≤ 3000m, 1500 ~ 3000m, 1% decrease in output for every 100 m increase							
IP degree	customization							
Size(mm)	42U/45U/48U							
Power Distribution	customization							
Cooling	customization							
Monitor Display	Normal Mains, Normal Inverter, Battery Under-voltage and output, overload etc							
Communication	RS485, SNMP							