Inverter Allsai

Pure Sine Wave Inverter

1kVA - 4kVA

1-4KVA Pure Sine Wave Inverter
Capacity 1KVA-10KVA
Input 24V/48V/110V/220V
Off grid power inverter
Used for telecom and utility
Connects with battery

Features

- With micro-CPU control, circuit is simple and reliable.
- Adopting SPWM technology, with the output is pure sine wave with stabilized voltage and frequency, filtering noise and low distortion.
- Built-in bypass switch, it can quickly switch between the mains and the inverter.
- High efficiency >85%
- 2 working type --- AC power type and DC power type:

  1) AC power type means the city power supply is main when the city power is normal, when city power is off, inverter comes into work state.
  2) DC power type means the inverter power supply is main when the city power is normal, when inverter power is off; city power comes into work state automatically.

- It can be turned off DC power in working condition and auto switched to the AC bypass, which will not affect the power supply to the load, and it is convenient maintenance and replacement of the battery.
- When it is overload, the inverter will shut off the output. After recovering the normal load power within 50 seconds, the power will auto recovery output. This function is suitable for the unmanned communication base station.
- Support communication function; RS232/ RS485/RJ45 interface for choose.
- Provide three groups of passive dry contact: DC input failure, the mains failure and AC output failure alarm.
- It can work without DC power. This function allows to use the inverter in advance, and install the battery.
- Mold design alone, coated paint, beautiful and generous, light weight.
- 1U, 2U, 4U or 8U 19 inch rack mounting design, easy to use.

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Technical Specification

Output power		1KVA	2KVA	3KVA	4KVA	5KVA	6KVA	7KVA	8KVA	9KVA	10KVA
Run mode		Pure inverter/online interactive									
DC Input	Rated input voltage	24V/48V				48V					
	Rated input current (A)	50/24	100/48	150/72	200/96	119	125	143	167	214	238
	Turn-off voltage range	24Vdc (20V-30V); 48Vdc(42V-59V)									
	Turn-on voltage range	24Vdc (22V-28V); 48Vdc(45V-57V)									
	Anti-noise current irrigation	≤10%									
AC Input	Bypass voltage	265V-185V(±10V)									
	Rated input current (A)	5.4	10.8	16.2	21.6	22.7	27	37.8	36.4	43.2	54
	Bypass transfer time (ms)	≤5ms									
AC output	Power factor	0.8				0.7					
	Rated capacity (VA)	1K	2K	3K	4K	5K	6K	7K	8K	9K	10K
	Rated output power	800W	1600W	2400W	3200W	3500W	4200W	4900W	5600W	6300W	7000W
	Rated output voltage and Frequency	220Vac, 50Hz									
	Wave shape	Pure sine wave									
	Rated output current	3.6A	7.2A	10.9A	14.5A	16A	19.1A	22.3A	25.5 A	28.6 A	31.8 A
	Output voltage accuracy	220 V±1.5%									
	Output frequency accuracy	50Hz±0.1%									
	Waveform distortion	≤3%									
	Dynamic Response Time	0.05									
	Overload	120%,30s									
	Inverter efficiency (80% Resistive load)	≥85%									
Work condition	Dielectric Strength	input & output 1500Vac, 1min									
	Noise(1m)	≤40dB									
	Ambient temperature	-25°C ~ +50°C									
	Humidity	0 ~ 95%,Non-condensing									
	Altitude (m)	≤ 1500									
	Cooling	Forced air									
Interface	HMI	LCD + LED display									
	Communication interface	RS232/RS485/RJ45(Choose one)									
	Dry contact load output	2ch /3 ch output (Choose one)									
	TCP/IP network interface	Optional									
Protection		Input under/over voltage; output overload, short circuit protection; AC input high and low voltage protection									
Output wiring		Sockets and terminals	Terminal Blocks								

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Technical Specification

Output power		1KVA	2KVA	3KVA	4KVA	5KVA	6KVA	7KVA	8KVA	9KVA	10KVA
Run mode		Pure inverter/online interactive									
DC Input	Rated input voltage	110V/220V				110V/220V					
	Rated input current (A)	10.6/ 5.3	21.3/ 10.5	32/ 15.8	42.6/ 21.1	53.2/ 26.3	63.8/ 31.6	74.5/ 36.8	81.5/ 42.1	95.7/ 47.4	106.4/ 52.6
	Turn-off voltage range	110Vdc(92V-132V) 220Vdc(190V-270V)									
	Turn-on voltage range	110Vdc(101V-127V) 220Vdc(207V-260V)									
	Anti-noise current irrigation	≤10%									
AC Input	Bypass voltage	145V-95V(±10V)									
	Rated input current (A)	10.5	21.1	31.6	42.1	52.6	63.2	73.7	84.2	94.7	105.3
	Bypass transfer time (ms)	≤5ms									
AC output	Power factor	0.8				0.7					
	Rated capacity (VA)	1K	2K	3K	4K	5K	6K	7K	8K	9K	10K
	Rated output power	800W	1600W	2400W	3200W	3500W	4200W	4900W	5600W	6300W	7000W
	Rated output voltage and frequency	110Vac, 50Hz									
	Wave shape	Pure sine wave									
	Rated output current	7.2A	14.5A	21.8A	29.1A	31.8A	38.2A	44.5A	50.9 A	57.3 A	63.6 A
	Output voltage accuracy	110 V±1.5%									
	Output frequency accuracy	50Hz±0.1%									
	Waveform distortion	≤3%									
	Dynamic Response Time	0.05									
	Overload	120%, 30s									
	Inverter efficiency (80% Resistive load)	≥85%									
Work condition	Dielectric Strength	input & output 1500Vac, 1min									
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	Communication interface	RS232/RS485/RJ45(Choose one)									
	Dry contact load output	2ch /3ch output (Choose one)									
Protection		Input under/over voltage; output overload, short circuit protection; AC input high and low voltage protection									
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