

Inverter Series: KT

KT1000AR



KT2000AR/KT3000AR



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48Vdc Inverter (1KVA - 3KVA)

KT series inverters are suitable telecom systems with 48VDC power supply, adopting high frequency PWM inverter technology (sinewave). KT series inverters can be connected to all kinds of AC equipment like wireless paging equipment, data switching exchange, local exchange, microwave communication equipment, program controlled exchange charging systems, fax machines, computers, servers and various communication equipment. Meanwhile, on ECO mode, it can be also used for air conditioners.

Main Features:

- Compliant with communication standard of AC and DC power supply systems
- High frequency PWM inverter technology (pure sinewave)
- Wholesome protective measures
- Low DC end current noise
- Compatible with Air-Conditioners
- ECO working mode
- Bypass Input
- Transformerless Design

Options:

- External SNMP/WEB card

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The Next Level in Digital Convergence[®]

Specification and Parameter		KT1000AR	KT2000AR	KT3000AR
Rated Output Capacity		1000VA/700W	2000VA/1400W	3000VA/2100W
AC Input	AC input (Vac)	110Vac / 120Vac		
	Frequency(Hz)	50/60Hz		
	AC input range(Vac)	82-132Vac / 90-144Vac		
	Operation mode	Main AC supply is Dip Switch selectable for priority AC Input (ECO) or Inverter		
	Frequency range	50/60Hz±10%		
DC Input	Rated voltage(Vdc)	48Vdc		
	Rated current(A)	17A	34A	51A
	DC Input range	40-60Vdc		
	Low voltage alarm of DC input	44.0±1Vdc		
	High voltage alarm of DC input	58±1Vdc		
	Low voltage protection of DC input	40.0±1Vdc		
	Over voltage protection of DC input	60±1Vdc		
	Input terminal reverse comparable broad range static current	<10%		
AC Output	AC Output (Vac)	110/120Vac ± 3%		
	Frequency (Hz)	50/60Hz ± 1%		
	Dynamic voltage transient	<10%		
	Wave form	Sine Wave, THD<3% (Linear Load)		
		Sine Wave, THD <8% (Non-linear Load)		
	Power factor	0.7		
	Overload Capacity	105% - 125% loads: 1min; 126% - 150% loads: 5sec; >150%: 1s,		
	Crest factor	3:1		
	Switch time for inverter to bypass status	< 4ms		
	Output Mode	Socket & Terminal		
Efficiency	≥ 98% (ECO mode), ≥ 88% (DC mode)			
Display		LED Indicating Lamps (Display working status)		
Communication Function		3PIN Dry contactor NO & NC		
SNMP (Optional)		External SNMP/WEB card via RS232 port for 2-3KVA only		
Alarm Function		DC input abnormal, Inverter Fault, overload		
Protection Function		DC input low-voltage and over-voltage protection, overload protection, short-circuit protection, AC output over-voltage or low-voltage protection, over-temperature protection		
Transmission		Meet EN5502 A-standard		
Radiation		Meet EN5502 A-standard		
Interference Rejection		Meet EN61000-4-3, EN61000-4-6 standard		
Insulation Resistance		> 10MΩ (500Vdc)		
Dielectric Strength		2121Vdc(AC input , output and DC input to ground, AC Input and output to DC input), no flashover voltage 1 min		
Cooling-down Method		Cooling fan		
Noise (dB)		<50dB (1m)	<55dB (1m)	
Work Environment	Working Temperature(°C)	-5°C ~ +40°C		
	Relative Humidity	0~95%, without condensation		
	Height Above Sea Level	Below 2000m, no derating; >2000m, meet IEC 60664-1 derating requirements		
Storage Environment	Inverter Storage Temperature (°C)	-40°C~+70°C		
	Relative Humidity	0~95%, without condensation		
Dimension (mm) (D×W×H)		300×440×43.5	350x440x87	
Weight (kg)		6	10	

Specification is subject to change without prior notice.

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