

T series telecom online inverter 1KVA to 3KVA










User's manual

1. Safety Introduction

This chapter introduces safety symbols and safety notes. Please read this chapter carefully and thoroughly before operation to avoid incorrect operation bringing harmful to personnel and equipment.

1.1. Description of the symbols

All of the symbols as listed in the below table may be used in this manual .These symbols are used for reminding users of safety notes for installation, operation and maintenance.

Symbol & description	
Symbol	Description
	Caution, danger
	Danger electric shock
	Alternating current(AC)
	Direct current(DC)
	Protective ground
	Recycle
	Do not dispose with ordinary trash

1.2. Safety notes

High temperature and voltage exist inside inverter. Please observe the rules before equipment installation, operation and maintenance or it may cause danger to personnel and equipment. Our company will assume none responsibility for violation of operation.

In the event of fire occurring vicinity, please use dry powder fire extinguishers only. The using of liquid fire extinguishing agents will cause electric shock.

1. Read this manual carefully and thoroughly before operation the Inverter and save this manual properly for future reference.
2. Do not tear up or shatter the alarm table on the inverter and pay attention to it.
3. Please do not overload the inverter beyond its designed capacity.

4. The inverter contains large capacity batteries. The case of the inverter must not be opened by untrained personnel. Otherwise, it may cause electric shock.

5. Do not let battery or batteries get close to any heating sources, they may explode.

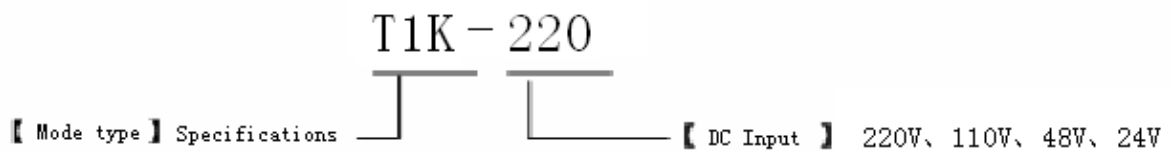
6. Do not open or mutilate the battery or batteries, released electrolyte is highly poisonous and harmful to the skin and eyes.

7. Do not short the positive and negative of the battery electrode. Otherwise, it may cause electric shock or fire.

2. Product introduction

This chapter introduces the equipment model, function, features and specifications

2.1. Mode type



There are two types of inverter according to the battery configuration: standard type and long backup time type, each available in the following ratings: 1KVA, 2KVA and 3KVA inverter; according to the operation, there are LCD numeric type.

Figure1: front

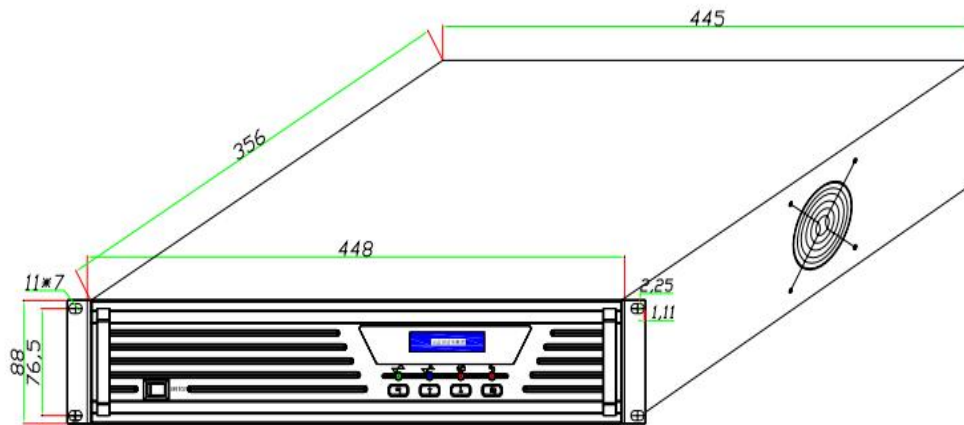
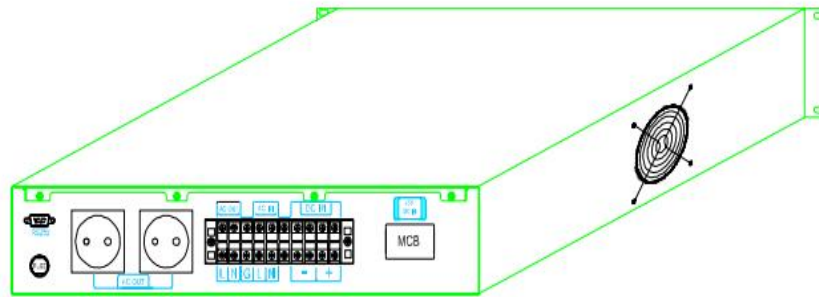


Figure2: rear



2.2. Specifications

Specifications and parameters		Model			
		T1KL	T2KL	T3KL	
Rated power		1000VA/800W	2000VA/1600W	3000VA/2400W	
AC input	Input system	Single phrase & earth ground			
	Ranged voltage	220VAC			
	Frequency	50Hz			
	Voltage range	115~300VAC			
	Frequency range	45~55Hz			
	Voltage range of bypass	80VAC~285VAC			
DC input	DC nominal voltage		24VDC/48VDC/110VDC/220VDC		
	24V	Nominal current	40.0A	78.4A	117.6A
		Voltage range	20-29VDC		
		Input low voltage/protection	20/21VDC		
		Input high voltage/protection	29/29VDC		
	48V	Nominal current	19.6A	39.2A	58.8A
		Voltage range	40-58VDC		
		Input low voltage/protection	40/42V		
		Input high voltage alarm/protection	58/58V		
	110V	Nominal current	8.6A	17.2A	25.8A
		Voltage range	90-130V		
		Input low voltage/protection	90/95V		
		Input high voltage/protection	130/130V		
	220V	Nominal current	4.3A	8.6A	12.9A
		Voltage range	180-260V		
		Input low voltage/protection	180/190V		
Input high voltage/protection		260/260V			
AC Output	Output system	Single phrase & earth ground			
	Output voltage	220VAC±3%(inverter output)			
	Output frequency	50±5Hz(normal), 50Hz±1%(abnormal)			
	Dynamic voltage transient range	<5%			
	Dynamic transient restore	< 60ms			
	Waveform	Sine wave THD<3% (linear load), sine wave THD<8% (nonlinear load)			

Specifications and parameters		Model	T1KL	T2KL	T3KL
	Output power factor		0.8		
	Overload capability		105~125%≥60s, 126~150%≥30s, the recover point is 90%		
	Input current peak coefficient		3:1		
	Transfer time		0ms		
Panel indicator system			LED screen + LCD indicator, show the status of inverter and operation parameter		
Communications			RS232(turn to 485), stem node		
Alarm function			AC/DC input under abnormal, overload condition and inverter problems		
Protection function			AC input or output above or below the range of voltage Overload, over temperature and short circuit protection		
Conduction			Satisfy YD/T983-1998A		
Radiation			Satisfy YD/T983-1998A		
Noise immunity			Satisfy YD/T983-1998A		
Insulating resistance			>2MΩ(500VDC)		
Insulating strength			2121VDC(AC input, output to ground, DC input to AC output, without flashover in one minute)		
Cooling system			Wind cooling		
Frequency			<55dB(1M)		
Working environment	Temperature		-10℃~+40℃		
	Humidity		0~95%, no condensation		
	Altitude		≤1500M, satisfy GB3859.2-93		
Storage environment	Inverter temperature		-40℃~+65℃		
	Humidity		0~95%, no condensation		
Dimensions(W×D×H)(mm)			438×380×83		