

# **RTI Series**

**Telecom Sine Wave inverter** 

## **User Manual**

## Preface

This REKOSER RTI series power supply equipment that has high voltages able to endanger personal safety, please carefully read relevant contents of this Manual before installing and using the equipment.

[Notices]
Before operation, please carefully read this User Manual to understand the
correct use method of the equipment. After reading, please properly preserve it
for further inspection.
Warning: the machine shall be installed by the trained technical personnel. Before installation, please be sure to clearly understand the following issues:
<ul> <li>Whether the voltage provided by the DC bus is the rated DC input voltage of the REKOSER RTI series inverter.</li> </ul>
• Usually, the red wire is connected to the positive electrode of the battery
pack while the black wire is connected to the negative electrode of the
battery pack. Please be sure to connect the DC bus according to "+" and
"-" polarity.
During battery pack installation, firmly connect the battery pack according to the connection method and sequence specified in the
battery installation instruction. It is forbidden to connect the positive and
contact any two binding posts of the battery or the exposed ends of the
connecting wire or else the battery may be damaged or cause personal
iniurv.
• Please notice: even if the Mains is cut off, the REKOSER RTI series inverter
may still internally have the high voltage able to endanger personal
safety.
<ul> <li>Please notice: the DC input terminal and the AC input terminal of the</li> </ul>
inverter shall be provided with air switches in order to cut off power
supply for maintenance and fault.
<ul> <li>Please cautiously use it in the occasions involving life safety.</li> </ul>

Statement: due to the continuous updating and perfecting of products and technologies, the contents of this Manual may not be completely consistent with the practical products. Please understand this. For inquiring about the updating condition of the product, please contact the dealer.

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## **Chapter | Safety Instruction**



Warning! Before installing and using this inverter, please carefully read the following safety instructions.

#### **1.1 Safety instruction**

The equipment has high temperature and high voltage, and shall be only installed, operated and maintained by the qualified and trained professionals. During equipment installation, operation and maintenance, it is necessary to abide by the local safety codes and relevant operation instructions; or else, personal injury or equipment damage may occur. The safety precautions mentioned in this Manual can be only regarded as the supplementation for the local safety codes.

This Company shall not bear any responsibility for the accidents caused by the violation of the general safety operation requirements or the safety standards for equipment design, production and use.

#### 1.2 General safety protection

1. Do not expose the REKOSER RTI series inverter in the environment including water, fog, snow, dust, etc., and do not block or shield ventilating ducts in order to reduce the danger occurrence probability. Do not install the REKOSER RTI series inverter in a small and narrow unventilated space, or else the power supply will be overheated.

2. In order to avoid fire and electric shock, please be sure that all cables have good electrical characteristics and suitable diameter. It is forbidden to use damaged or small-diameter cables.

3. Since the parts inside the power supply may cause electric charge and striking, please do not put battery, inflammable product or any article with fire prevention requirements around the power supply.

#### 1.3 Battery related operation safety protection

4. In case skins or clothes are contaminated by the acid liquor of the battery, please immediately use soap and clean water for washing. In case acid liquor is splashed into your eyes, please immediately use cold water to wash the eyes for at least 20 minutes and then timely go to hospital for treatment.

5. Do not smoke or make open fires around the battery or the engine.

6. Do not place metal tools on the battery, because the generated spark or short circuit may cause an explosion.

7. When operating a lead-acid storage battery, do not wear a ring, bracelet, necklace, watch and other metal ornaments, because the current at the short circuit connection of these ornaments and the storage battery may cause high temperature and accordingly melt metal and cause severe burn injury.



## **Chapter II Overview**

#### 2.1 Introduction

RTI sine wave inverter series is especially designed and produced for the enterprises in electrical power system and post and telecommunication industries according to their actual requirements under the condition of not only considering the spatial installation size and the automation and networking requirements for the inverter management in IT age, but also considering the influence of the noise on the personnel in offices or in machine rooms.

The inverter of this series employs advanced SPWM and CPU control technology to realize precise control, isolated input and output, output soft start, safety and high efficiency, good reliability and strong impact resistance to inductive load. Not only with small volume, light weight, beautiful appearance, convenient installation and maintenance, simple operation, low noise, low backward noise and no pollution, but also with the function of real-time data collection and multi-path remote communication, the products of this series can provide convenience for many system users to implement network management and remote control.

Meanwhile, RTI series is not only applicable to the communication industry, but also applicable to other occasions with high requirements for power supply quality, thus becoming the ideal selection of the power supply for office automation.

#### 2.2 Functions and features

- RTI series refers to the intelligent dedicated REKOSER RTI series inverter and employs intelligent microcomputer CPU control technology and advanced control theory as well as mature and stable high-frequency inversion mode in order to rapidly respond to the external environment change and constantly provide high-quality AC output in a real-time manner.
- RTI series employs advanced PWM+SPWM pulse width modulation technology to realize output soft start, and the output thereof is the pure sine wave with stable frequency and voltage, filtered noise and low distortion factor.
- Different from other false isolation modes, the advanced DC-AC electric isolation technology can really realize the completely electric isolation of DC and AC in all circuits and accordingly meet the isolation requirements of all application systems as well as eliminate all possible mutual interferences.
- This product has startup self-inspection function, strong loading capability and good load compatibility; the built-in by-pass switch has improved the continuity and reliability of the REKOSER RTI series inverter.
- This product also has direct startup function by mains and allows the users to provide power supply to the load through the by-pass mains when there is no DC input; meanwhile, it also allows to cut off DC under startup status and to automatically switch to the mains by-pass, without influencing the power supply for the load while facilitating the maintenance replacement of the storage battery.
- This product also has intelligent unattended operation function, namely: after the output is cut off due to too high or too low DC voltage, mains failure, etc., the power supply can automatically recover the output when the DC voltage or the mains returns to normal condition. Therefore, this



product is especially suitable for the unattended communication base.

- This product has perfect safety protection functions, such as DC input inverse connection prevention and DC input buffering protection and other comprehensive protection measures for overvoltage, overload, short circuit, over-temperature and inverter fault.
- Due to the adoption of the advanced backward noise suppression techniques, this product does not mutually intervene with the communication equipment sharing the DC cabinet. The AC input terminal employs multiple filtering to eliminate the interference of the utility power grid in order to meet the requirements of the application system for AC-dominated power supply.
- This product can flexibly set AC-dominated power supply and DC-dominated power supply (power supply form can be switched through LCD panel or communication background software):
- When there are mains, AC-dominated REKOSER RTI series inverter is under mains output mode; in case of mains fault, AC REKOSER RTI series inverter automatically switches to inverter output.
- DC-dominated REKOSER RTI series inverter is under inverter output mode during normal operation, and automatically switches to mains by-pass output during the occurrence of DC input fault.
- This product also has the function of LED+LCD status display, alarm signal display and alarm recording, and is provided with 128\*64 lattice screen as the perfect humanized man-machine interface with blue background and white subtitles.
- This product has 5 groups of passive dry contacts respectively for DC input fault, AC input fault, overload information, by-pass information and output fault.
- This product is also provided with completely independent RS232 and RS485 communication interfaces, and supports real-time data communication function, and can use the monitoring software to monitor and control the working condition of the REKOSER RTI series inverter in a real-time manner.
- This product supports built-in TCP/IP communication to realize remote network monitoring and management of the REKOSER RTI series inverter. (Optional)
- This product supports built-in SNMP communication to realize the interconnecting function of the REKOSER RTI series inverter and attain the objective of network monitoring and management. (Optional)

#### 2.3 Technical characteristics and parameters

#### 2.3.1 Sine Wave series model code





48-----Nominal input DC voltage (V)

#### 2.3.2 Sine Wave series model list

Table I:

	24 Series	48 Series	110 Series	230 Series
1000VA	24/ 230-1KVAR	48/230-1KVAR	110/ 230-1KVAR	220/230-1KVAR
2000VA	24/ 230-2KVAR	48/230-2KVAR	110/ 230-2KVAR	220/ 230-2KVAR
3000VA	24/ 230-3KVAR	48/230-3KVAR	110/ 230-3KVAR	220/ 230-3KVAR
4000VA	Not available	48/230-4KVAR	110/ 230-4KVAR	220/ 230-4KVAR
5000VA	Not available	48/ 230-5KVAR	110/ 230-5KVAR	220/ 230-5KVAR
6000VA	Not available	48/ 230-6KVAR	110/ 230-6KVAR	220/ 230-6KVAR
8000VA	Not available	48/230-8KVAR	110/230-8KVAR	220/ 230-8KVAR
10000VA	Not available	48/ 230-10KVAR	110/ 230-10KVAR	220/ 230-10KVAR

#### 2.4 Technical characteristics and parameters

#### 2.4.1 Technical index

Table II:

Technical Index(VA)		1K	2К	ЗК	4K	5K	6K	8К	10K		
DC inpu t	Rated input voltage (Vdc)		Refer to Table III								
	Rated input current (A)		Refer to Table III								
	Allowable range of input DC voltage (Vdc)	Refer to Table III									
	Backward noise current	≤10%									
AC by-pas s input	Allowable by-pass voltage (Vac)		270V-170V(±10V)								
	Rated input current (A)	4.5 9.1 13.6 18.2 22.7 27.3 36.4 4						45.4			

	User Manual for RTI series						, in the second se					
	By-pass conversion time (ms)		≤5ms									
	Rated capacity (VA)	1К	2К	ЗК	4K	5K	6К	8К	10K			
	Rated output power (W)	800	1600	2400	3200	4000	4800	6400	7000			
	Inverter output voltage and frequency				230Va	c, 50HZ						
	Inverter output current (A)	3.47	6.96	10.43	13.9	17.4	20.8	27.82	30.43			
	Output voltage precision (V)		230±1.5%									
AC	Output frequency precision (Hz)	50±0.1% Or 60±0.1%										
out put	Waveform		Pure sine wave									
	Total harmonic distortion (THD)	≤3% (linear load)										
	Dynamic response time	5% (load 0←→100%)										
	Power factor (PF)	0.8										
	Overload capacity		100%-12	20% 60s		121%-150% 10s						
	Inversion efficiency (80% resistive load)	≥85%										
	By-pass conversion time (ms)	≤6ms										
	Dielectric strength (input and output)				1500Vac	, 1 minute						
Workin	Noise (1m)	≤40dB										
g enviro nment	Operating environment temperature	-20°C~+50°C										
	Humidity			0~909	%, no moist	ure conder	isation					
	Operating altitude (m)	≤2000										
Indicati	LCD display	Input ar	nd output v	oltage, freq	uency, outp	out current	, temperat	ure, percen	tage, etc.			
on	inverter status	Norn	nal mains, r	normal inve	ersion, batte	ery under-\	voltage and	l output ov	erload			
Mecha nical size	Standard rack (Depth × Width × Height) (mm)			Refe	r to 7.3 Case	2 Structure	Chart					



Protection function

Input under-voltage and overvoltage, output overload and short circuit protections, etc.

#### Table III:

	24 Seri	es	48 Se	ries 110		110 Series		eries
Rated input voltage (Vdc)	24V		48V		110V		230V	
Allowable range of input	Cutoff vol 20V—3	tage 0V	Cutoff voltage 40V60V		Cutoff voltage 90V—135V		Cutoff voltage 180V275V	
DC voltage (Vdc)	Startup vo 22V—2	ltage BV	Startup voltage 45.5V—57V		Startup voltage 104V—131V		Startup voltage 208V—260V	
	1KVA	42	1KVA	21	1KVA	9	1KVA	4.5
	2KVA	83	2KVA	42	2KVA	18	2KVA	9
	ЗКVА	125	ЗКVА	63	ЗКVА	27	ЗКVА	13.5
Rated input	Not available		4KVA	83	4KVA	36	4KVA	18
(A)	Not available		5KVA	104	5KVA	45	5KVA	22.5
	Not available		6KVA	125	6KVA	55	6KVA	27
	Not available		8KVA	166	8KVA	73	8KVA	36
	Not avail	able	10KVA	208	10KVA	91	10KVA	45

**REKOSER** 

## **Chapter III Structure and Principle**

#### 3.1 Hardware structure and working principle

**Specification:** RTI series employs advanced PWM+SPWM high frequency technology and takes CPU as the master control chip, thus realizing the perfect combination of the advanced intelligent control and the mature and stable inverter mode.

#### Functional block diagram



#### 3.2 Operation mode

#### 3.2.1 AC power supply mode

Namely AC inverter working mode: the inverter employs mains for load when there is mains and switches to inverter working mode when the mains is abnormal.





#### **3.2.2 DC power supply mode**

Namely DC-dominated inverter working mode: under normal condition, DC-dominated inverter is under inverter output status all the time; in case of DC fault, it switches to mains by-pass.



#### 3.3 Appearance and indicator light





## **Chapter IV Installation and Debugging**

#### 4.1 Installation preparation

RTI series must be installed only by the technical personnel with certain electric theory knowledge and practical experience.

#### 4.1.1 Tool, instrument and data

Universal meter, tool kit, specification and cable

#### 4.1.2 Installation environment inspection

Environmental requirements

- Working temperature: -20°C~+50°C
- Storage temperature: -40°C~+70°C
- Relative humidity: 0%-95%, no moisture condensation
- Cooling mode: temperature control type air cooling
- Altitude: 1500m, meeting the derating requirement of GB3859.2-93
- Verticality: no vibration, with the vertical gradient not exceeding 5 degrees
- Class of pollution: Class II

The system shall be installed in the cool and dust-free operating environment with sufficient ventilation and relatively low humidity. The recommendable working temperature is  $20 \sim 25^{\circ}$ C and the humidity shall be controlled at about 50%.



Inflammables, explosives or corrosive gas or liquor shall not be stored in the room. It is forbidden to be installed in the working environment with metallic conductivity dust.

#### 4.1.3 Connecting cable

Users can optionally select and configure the cable and meanwhile the connector is randomly provided as the connecting wire. The cable specification is as shown in the following table:



Conscibu	AC input wire	DC input wire section area					
Capacity	section area	24V	48V	110V	230V		
1000VA	1.5mm²	10 mm²	6.0 mm²	4.0 mm <sup>2</sup>	2.5 mm <sup>2</sup>		
1500VA	2.5mm <sup>2</sup>	16 mm²	10 mm²	6.0 mm <sup>2</sup>	2.5 mm²		
2000VA	2.5mm <sup>2</sup>	20 mm²	16 mm²	6.0 mm <sup>2</sup>	2.5 mm²		
3000VA	4.0mm <sup>2</sup>	50 mm²	16 mm²	10 mm²	4.0 mm <sup>2</sup>		
4000VA	4.0mm <sup>2</sup>	No	25 mm²	10 mm²	6.0 mm²		
5000VA	6.0mm²	No	25 mm²	10 mm²	6.0 mm²		
6000VA	6.0mm²	No	36 mm²	16 mm²	6.0 mm²		
8000VA	8.0mm <sup>2</sup>	No	36 mm²	16 mm²	10 mm <sup>2</sup>		
10000VA	10.0mm <sup>2</sup>	No	40mm <sup>2</sup>	25 mm <sup>2</sup>	10 mm <sup>2</sup>		

#### 4.1.4 Unpacking and cargo inspection

The equipment shall be placed in the satisfactory storage environment and the storage period shall preferably not exceed 3 months.

During equipment installation, it is necessary to deliver the equipment to the installation site and then remove the external package. At this moment, it is necessary to check whether the equipment and materials are correct according to the packaging list inside the container and meanwhile properly preserve various spare parts and accessories for installing, updating and maintaining the equipment in future.

#### **4.2 Installation**

#### 1. Installation

After removing the package, take out the valve bag containing two L-shaped handle frames and handles from the installation accessories, use M4 screw in the bag to fix the right and left sides of the REKOSER RTI series inverter and meanwhile lock the screw, as shown in the following figure:





#### 2. Placement and fixation

Place the REKOSER RTI series inverter installed with handles at the position suitable for a 19-inch rack (notice: the REKOSER RTI series inverter shall be provided with a supporting device at the bottom!) and then fix it.

#### 3. Connecting cable

#### 1) DC input connection

Connect the prepared cable to the DC input terminal at the back part of the REKOSER RTI series inverter and pay attention to the connection of the positive and negative electrodes.

Hot-line operation shall be forbidden in order to avoid such accidents as short circuit and striking which may endanger personal safety and equipment safety.

#### 2) AC input and output connection

Terminal strip is adopted for the AC input and output connection of this machine. It is necessary to connect the cables with connectors according to the silk-screen mark.

Notice: the live line and the null line cannot be inversely connected, and the input and the output cannot be inversely connected; after wire connection, it is necessary to check whether the wires are firmly and stably connected, as shown in the following figure:





## **Chapter V Use and Operation**

#### 5.1 Power-on and power-off

#### 5.1.1 The first time startup

- Check whether the DC input voltage is consistent with the label at the back of the machine; in case of any inconsistency, please do not introduce a DC power supply in order not to cause machine damage! For any unclear part, please contact the supplier or directly contact the manufacturer.
- Check whether the wiring polarity of the DC input is correct; or else, the machine cannot be normally started.
- Check whether the wiring of AC input and output is correct and confirm that there is no short circuit phenomenon.
- If there is no error in the above checks, respectively introduce DC power supply and AC power supply.
- Place the startup switch on the machine at NO position in order to send power to start the machine.
- Firstly, all indicator lights are orderly turned on for self-inspection.
- Then, the output relay is closed to output AC power supply to the load.

#### 5.1.2 Daily operation

- Only the startup & shutdown switch on the machine is operated for daily startup.
- For shutdown, it is necessary to first turn off the load and then turn off the inverter switch.
- For long-term nonuse, please cut off the power supply for AC input and output as well as the output connection in order to ensure safety.
- Please follow the operations for the first time startup to start the machine after long-term nonuse.

#### 5.2 Use operation

#### 5.2.1 Startup

1. Confirm whether DC input and AC output of the power supply are correctly and reliably connected;

2. After the startup/shutdown switch is rightwards pressed, the inverter sends "tick" noise and enters self-inspection status, thus indicating that the machine is started.

**Self-inspection status:** before steady output, the REKOSER RTI series inverter checks the external environment and checks whether the inverter supply power itself is normal; if various status parameters of the REKOSER RTI series inverter and the mains are normal, the inverter will steadily operate in mains status or inverter status (AC-dominated inverter is steady in mains output status and DC-dominated



inverter is steady in inverter output status). It takes about 5s to complete this process.

#### 5.2.2 Shutdown

After the startup/shutdown switch is leftwards pressed, the inverter LED indicator light and the REKOSER RTI series inverter are both turned off.

#### 5.2.3 Mute

In case the REKOSER RTI series inverter has a fault in the operation process, the system will send an audible and visual alarm which can be set through the LCD, namely selecting Turn Off (turn-off is **permanent**, and there will be no audible alarm for any new fault) in the sound control option.

Operators can directly press the ENT <u>(temporary)</u> button to deactivate and activate (the existence of alarm is the essential condition) the alarm. For the same alarm, the muted alarm will not be automatically turned on (if the fault is removed and the same fault appears again, the alarm will be turned on again); if there is another alarm, no matter whether the last alarm is under mute status or not, the system will automatically turn on the audible alarm.



## **Chapter VI Operation Status and Display**



#### 6.1 Indicator light and button definition

#### 6.2 Indicator light display list

Startup self-ins	Status	Mode ((	Green)→On→	Mains (Green) →0n→	Battery (Green) →On→		Load (Green)→(	On→		
pection	Buzzer			One sound ev	ery 1s, and triple sounds before	ry 1s, and triple sounds before mute.				
	Status		AC mode		DC mode					
light (Green/	Indicator light		Normally gree	n No			ormally blue			
Blue)	Buzzer		No	-		No				
	Status	Norma	l AC voltage	High AC voltage	Low AC voltage		No AC voltag	je		
Mains Light	Indicator light	Norn	nally green	Quick flashing red	Slow flashing red		Normally red	d		
(Green/ Red)	Buzzer	No		One sound every 3s	, One sound every 3s		One sound every 3s			
	Status	Norma	l DC voltage	High DC voltage	Low DC voltage		No DC voltag	ge		
Battery	Indicator light	Normally green		Quick flashing red	juick flashing red Slow flashing red		Normally red	d		
(Green/ Red)	Buzzer		No	One sound every 1s	, One sound every 3s		One sound ever	ry 3s		
	Status	Normal load	Overload 120%	Overload 150%	Overload shutdown	Short	rt circuit shutdown	Inverter fault		
Load	Indicator light	Normally green	Slow flashing green	Quick flashing green	Slow flashing red	Qı	uick flashing red	Normally red		
(Green/ Red)	Buzzer	No	One sound every 1s	One sound every 1s	Continuous sound	Co	ontinuous sound	Continuous sound		



#### 6.3 Specification for LCD display menu





## **Chapter VII Alarm and Monitoring**

#### 7.1 Remote control and alarm

#### 7.1.1 Interface definition





The contact capacity of each group of the dry contacts shall not exceed 60 V 0.5A.



### 7.2 Common fault handling

Fault Type	Fault Phenomenon	Fault Analysis	Fault Point Judgment	Fault Handling	Remarks
Startup fault	Unable to start up	Inverse connection of DC negative and positive electrodes	Check the negative and positive electrodes of the DC input terminal before connection, wherein the high potential shall be connected to "+" electrode while the low potential shall be connected to "-" electrode.	Confirm the negative and positive electrodes and then reconnect the corresponding wire.	
Operatin g fault	The machine has no output after operating for a certain period	Low-voltage or high-voltage protection of inverters; overload protection, etc.	Cut off the load to test whether the machine can normally operate and whether the voltage of each point is normal, etc.	Consult with the technical personnel of the manufacturer.	
Mains switchin g fault	Unable to switch	Too high or too low utility supply voltage	Use a universal meter to measure AC input of the inverter to check whether the voltage is within the working range.	Switch after the utility supply voltage is stable.	
Output fault	No output	Machine protection	High voltage, low voltage, over-temperature, overload, etc.	Consult with the manufacturer.	
Communi cation fault	Unavailable communication	Whether the communication interface is wrongly accessed.	Check whether the correct communication mode (RS232 485) is selected.	Select correct communication mode	
	Unstable communication	Whether the communication line is too long.	Check whether the Baud rates of the communication line material and panel are consistent with each other.	Use twisted pair or reset Baud rate.	

#### 7.3 Case structure chart



RAKOL

## **Quality Warranty Card**

In order to ensure high quality, the sine wave REKOSER RTI series inverter must be strictly inspected before delivery. REKOSER assures the good machine performance and the parts integrity listed in the warranty card to the users. The free warranty service is available for one year, and the warranty regulations are as follows:

(I) In case the parts are damaged or have fault within the warranty period since the purchasing of the machine and such damage or fault has been verified by the technical personnel of REKOSER to take place in normal use, REKOSER will freely repair the machine and replace relevant parts, but the damaged parts shall belong thereto.

(II) In case of any following condition listed in the warranty card for the machine, the warranty period shall be automatically expired.

1. Alter company trademark;

2. Damage is caused due to faulty operation, use negligence and negligence factors;

3. Other persons rather than the technical personnel of REKOSER optionally start up the machine for repair, refit the machine, obliterate or remove machine number or seal strip;

4. The machine is not installed according to the installation instructions of the manufacturer.

(III) Please properly reserve this card and show this card and the purchasing receipt note (invoice) to the technical personnel for repair.

Contact information			
Name and surname		Product model	
Telephone		Email	
Company		Address	
Product information			
Serial Number		Product model	
Purchasing time		Invoice number	
Maintenance Record			
Date	Description	Performed by	Worker Signature

Note: please make one copy with an official seal after the user information is written and send it back to the Market Department of the Company for archiving.



REKOSER

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