

VTRN-T101 Series Online UPS System

1-3kva (220V/230V/240V)



VOLTRAN

Voltran VTRN-T101 Series Online Tower UPS provides reliable backup power with advanced features suitable for office, industrial, and IT applications. It offers pure sine wave output, intelligent battery management, and robust protection mechanisms



STANDARDS

- ✦ IEC EN 62040, EN60950
- ✦ EMC (2004/108/EC)
- ✦ ISO 9001
- ✦ CE conformity
- ✦ GOST conformity

CONSTRUCTION

- ✦ Transformerless design
- ✦ Modular DSP controls
- ✦ Overload & short circuit protection
- ✦ RS232 Port ,USB,SNMP and Dry Contacts.

OTHER FEATURES

- ✦ True online double conversion
- ✦ Self diagnostics on startup
- ✦ Cold start
- ✦ ECO mode for high efficiency
- ✦ Compatible with generator
- ✦ Lightning & surge protection
- ✦ Paralleling option
- ✦ Emergency Power Off (EPO) Function

SUPPORT

- ✦ 10 years spare parts availability
- ✦ Standard 1 year warranty
- ✦ Optional 2 year warranty

APPLICATION

Networks and Servers, Telecommunications, Industrial and Manufacturing Plants, Medical Facilities, Banking and Financial Institutions, Computers and Networks Equipment, Security Systems, Military and Defense, Emergency Systems, Laboratories, Remote Monitoring Systems

FEATURES

- ✦ Wide range of input voltage while input PF>0.99
- ✦ Output PF of 1, upgraded overload capability
- ✦ Full protection of over-voltage and short-circuit
- ✦ Multiple communication interface: RS232, RS485, AS400, dry contact, USB and SNMP card
- ✦ LCD/LED display, monitoring all the operation status
- ✦ Auto fan speed adjustment
- ✦ External environment and battery temperature sensor
- ✦ 1-12A adjustable charger with more flexibility
- ✦ Support Lithium battery
- ✦ Intelligent charger with deep discharge protection
- ✦ Battery status indication



SPECIFICATION

MODEL		VTRN-TI01-L	VTRN-TI01-S	VTRN-TI02-L	VTRN-TI02-S	VTRN-TI03-L	VTRNT-I03-S
System Capacity		1KVA/1KW		2KVA/2KW		3KVA/KW	
Phase		Single Phase in, Single Phase out					
Input Volatge Range		110VAC~300VAC					
		176VAC~276VAC for 100% load; 276VAC~300VAC for 50% load; 110VAC~176VAC load decrease linearly from 100%~50%					
Input Power Factor		≥0.99					
Input Frequency		50/60±5Hz (Default), ±3Hz/±10Hz (settable)					
Input Frequency Range		40Hz~70Hz					
Frequency Adaptable		Settable					
OutputVoltage		200/208/220/230/240VAC					
Voltage Regulation		± 1 %					
Rate Frequency		50/60Hz					
Frequency Range		±0.1%					
Output THDu		≤2% THD, linear load; ≤ 5% THD, non-linear load					
Output PF		1 (0.9 for 200VAC/208VAC)					
Crest Factor		3:1					
Dynamic Response		≤5% (0% - 100% -0%)					
Dynamic Recovery		≤40ms (0% - 100% -0%)					
Overload Capability	Inverter	102%~110% for 30mins; 110%~125% for 10mins; 125%~150% for 30s					
	Battery	102%~110% for 1min; 110%~125% for 10s; 125%~150% for 5s					
	Bypass	<130%: long term operation; <150% for 10mins; <180% for 5s					
DC Voltage		36VDC		72VDC		96VDC	
Number/Type		External	12v,7Ah/9Ah*3	External	12v,7Ah/9Ah*6	External	12v,7Ah/9Ah*8
Charging Voltage		Settable					
Max Charging Current		1-12A	1A	1-12A	1A	1-12A	1A
Battery Cold Start		Standard					
Efficiency	Normal Mode	94.5%@100% load		95.5%@100% load		95.5%@100% load	
	ECO Mode	96%		97%		97%	
	Battery Mode	89.5%@100% load		91.5%@100% load		91.5%@100% load	
Noise (1m away)		<43dB@<60%load <47dB@>60%load		<50dB@<60%load <55dB@>60%load		<50dB@<60%load <55dB@>60%load	
Display		LED+LCD					
Interface		RS232, input socket (IEC C14 for 1K, C20 for 2-3K) output socket (2 National standard sockets for 1K, 4 National standard sockets for 2K 3 National standard sockets+1 20A connecting terminal for 3K)					
Optional		RS485, USB, AS400 Dry Contact, SNMP Card, EPO External Battery Temperature, RJ45 Surge Protection, Dust net					
W*D*H(mm)		144*354*224	144*354*224	144*410*223	190*405*330	144*410*223	190*405*330
W*D*H(mm)(Package size)		240*448*320	240*448*320	240*510*320	285*520*406	240*510*320	285*520*406
Net Weight (KG)		4.3	10.3	5.8	21.1	6.2	25.5
Gross Weight (ka)		5.6	11.6	7.1	23	7.5	27.5