

VTRN-T33 Series Online UPS

10-40kVA (380V/400V/415V)

Voltran VTRN-T33 series Tower online UPS applies advanced technology that increases performance and reliability: two high speed DSPs with completed digital control to ensure high quality of power supply, high input power factor and low input current distortion.



VOLTRAN

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

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

FEATURES

- ✦ High efficiency, up to 96%
- ✦ High input PF>0.99;Input current THDi<4%
- ✦ Multi-protection, over-temperature protection with 8 sensors, over-load, battery under voltage, fan failures, short-circuit
- ✦ Four circuit breakers, providing full protection when fault happens
- ✦ Battery cold start
- ✦ Battery management with smart charging control, greatly extend the battery life
- ✦ Parallel up to 8 units
- ✦ Friendly operation interface, high-resolution LCD screen



SPECIFICATION

MODEL		VTRN -T3310S	VTRN -T3315S	VTRN -T3320S	VTRN -T3330S	VTRN -T3340S
		VTRN -T3310L	VTRN -T3315L	VTRN -T3320L	VTRN -T3330L	VTRN -T3340L
System Capacity		10kVA	15kVA	20kVA	30kVA	40kVA
Dual Input		Standard				
Phase		3 Phase+Neutral+Ground, 380V/400V/415V(line-line)				
Input Voltage Range		304~478Vac (line-line),full load; 228V~304Vac (line-line),load decreases linearly according to the min phase voltage				
Rate Frequency		50/60Hz				
Input Frequency Range		40Hz~70Hz				
Input PF		>0.99				
Input THDi		<4% (100% Linear load)		<3% (100% Linear load)		
Rate Voltage		380/400/415Vac (line-line)				
Rate Frequency		50/60Hz				
Input Voltage Range		Settable, -40%~+25%				
Bypass Frequency Range		Settable, ±1Hz, ±3Hz, ±5Hz				
Bypass Overload		125% long term operation; 130% for 10 mins; 150% for 1 min				
Rate Voltage		380/400/415Vac (line-line)				
Voltage Regulation		1% for balance load; 1.5% for unbalance load				
Rate Frequency		50/60Hz				
Frequency Precision		0.1%				
Output PF		1		0.9		
Output THDu		<1% , Linear load; <5.5%, Non-linear load				
Crest Factor		3:1				
Inverter Overload		110% for 1 hour; 125% for 10 mins ;150% for 1 min; >150% for 200 ms				
Voltage		±240Vdc				
Battery Number		40pcs (Settable: even number from 32 to 44)				
Voltage Precision		±1%				
Charge Power		up to 20% * Output active power				
Battery Cold Start		Optional				
Efficiency	AC Mode	95.0%				96.0%
	ECO Mode	98.0%				
	Battery Mode	95.0%				96.0%
Display		LCD + LED + keyboard				
IP Class		IP 20				
Interface		RS232,RS485				
Option		SNMP Card, Parallel kit, USB, Programmable Dry Contact				
Temperature		Operation: 0~40 °C Storge: -40~70 °C				
Relative Humidity		0~95% Non-condensing				
Altitude		<1000m. Within 1000m to 2000m, 1% power derating for every 100m rise				
Noise (1 meter)		55dB @ 50% load				
Applicable Standards		Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040-3				
Weight (kg)		51.5	51.5	89	89	140
		31	31	50	52	61
Dimension W*D*H (mm)		250*840*715	250*840*715	350*738*1335	350*738*1335	500*840*1400
		250*660*530	250*660*530	250*680*770	250*680*770	250*836*770