VTRN-RT33 Series Online UPS System

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

Voltran VTRN-RT33 Series Rack and Tower UPS is a high-performance double conversion online UPS featuring fully DSP-controlled technology. Its flexible configuration options of 3/3 and 3/1 make it adaptable to various power protection needs. Designed with a compact footprint, it is an ideal solution for modern data centers that require reliable, efficient, and space-saving power backup. The RT33 Series ensures continuous power supply, enhanced stability, and advanced management features to support your critical infrastructure effectively



APPLICATION

Data centers: Ensures server and network uptime
Telecommunications: Maintains communication systems
Banking & financial institutions: Protects transaction systems
Healthcare: Supports medical equipment and records
Industrial automation: Stabilizes control and automation systems
Emergency & security systems: Keeps surveillance & alarms operational
Office environments: Safeguards workstations and VoIP systems

FEATURES

- ◆ IDC(Internet Data Center), network servers and workstation, control system, communication system, office, PC etc
- → Rack Design
- ◆ Rack design, compatible with 19" standard rack cabinet, convenient to be integrated with servers
- ◆ Friendly Interface
- → 5.5" touch color LCD with graphic display, more information displayed and easier for customer to operate
- → Flexible configuration
- ◆ The system can be configured to 3/3 and 3/1
- Intelligent charging management
- ◆ The system intelligently controls the whole process of the charging and discharging, effectively improving the life time of the battery.



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
- → Lightening & surge protection
- → Paralleling option
- ◆ Emergency Power Off (EPO) Function

SUPPORT

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







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SPECIFICATION

Input	MODEL	VLTN-RT3310	VLTN-RT3315	VLTR-RT3320	VLTR-RT3325	VLTR-RT3330	VLTR-RT3340	
Rate Voltage 380/400/15VAC (line-ine) Rate Frequency 50/60Hz 304~478Vac (line-ine), full load 228V~304Vac (line-ine), full load 228V~304Vac (line-ine), derate from 75% to 100% load 100M 1	Power Rating	10KVA/10KW	15KVA/15KW	20KVA/20KW	25KVA/25KW	30KVA/30KW	40KVA/40KW	
Rate Frequency S0/60Hz 304-478Vac (line-ine),full load 228V-304Vac (line-ine), derate from 75% to 100% for Input Voltage Range 40Hz-70Hz 228V-304Vac (line-ine), full load: 228V-304Vac (line-ine), derate from 75% to 100% for Input Frequency Range 40Hz-70Hz 44% (100% Linear Load) <3% (100% Linear Load)	Input	3 P + N+ PE						
Input Voltage Range	Rate Voltage	380/400/415VAC (line-ine)						
Input Voltage Range	Rate Frequency	50/60Hz						
228V-304Vac (line-ine), full load; 228V-304Vac (line-ine), derate from 75% to 100% local line Input PF	Input Voltage Range	304~478Vac (line-ine),full load						
Input PF	input voltage Kunge	228V~304Vac (line-ine), full load; 228V~304Vac(line-ine), derate from 75% to 100% load						
Input THDi	Input Frequency Range	40Hz~70Hz						
Rate Voltage 380/400/415Vac (line-ine)	Input PF	>0.99						
Rate Frequency	Input THDi	<4% (100% Linear Load) <3% (100% Linear Load)						
Input Voltage Range	Rate Voltage	380/400/415Vac (line-ine)						
Bypass Frequency Range Selectable, ±1Hz, ±3Hz, ±5Hz Bypass Overload 125%, Long time;130%,10mins;150%,1min;>150%,1s Rate Voltage 380/400/415Vac (line-ine) Rate Frequency 50/60Hz Output PF 1 Output THDu <1% from 0% to 100% linear load <5.5% full non-linear load according to IEC/EN62040-3 <1% from 0% to 100% linear load <5% full non-linear load according to IEC/EN62040-3 Inverter Overload 110% for 1 hour;125% for 10 min;150% for 1min;>150% for 200ms Battery number ±240VDC Charger Accuracy 1% Charger Capacity up to 20% *Output power Battery Cold Start Yes AC Mode 95.0%max 95.5%max 96.0%max 96.0%max Battery Mode 94.5%max 95.5%max 95.5%max 95.5%max Display LED + LCD+Touch Screen Interface RS232(only 10-25K), USB(only 40K), RS485, Programmable dry contact Option SNMP,parallel kit SNMP,parallel kit,LBS Operation Temperature -40 ~ 70 °C Storage Temperature -40 ~ 70 °C Relative Humidity 0 ~ 95% Non condencing </td <td>Rate Frequency</td> <td colspan="6">50/60Hz</td>	Rate Frequency	50/60Hz						
Bypass Overload 125%, Long time:130%, 10mins:150%, 1min:>150%, 1s	Input Voltage Range	Selectable, -40%~+25%						
Rate Voltage 380/400/415Vac (line-ine) Rate Frequency 50/60Hz Output PF 1 Output THDu <1½ from 0½ to 100½ linear load according to 1EC/EN62040-3 according to 1EC/EN62040-3	Bypass Frequency Range	Selectable, ±1Hz, ±3Hz, ±5Hz						
Rate Frequency 50/60Hz	Bypass Overload	125%, Long time;130%,10mins;150%,1min;>150%,1s						
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Cutput THDu	Rate Frequency	50/60Hz						
Output THDu <5.5% full non-linear load according to IEC/EN62040-3	Output PF	1						
Inverter Overload 110% for 1 hour;125% for 10 min;150% for 1min;>150% for 200ms Battery number ±240VDC Charger Accuracy 1% Charger Capacity up to 20% *Output power Battery Cold Start Yes AC Mode 95.0%max 95.5%max 96.0%max 96.0%max Battery Mode 94.5%max 95.5%max 95.5%max 95.5%max Display LED + LCD+Touch Screen Interface RS232(only 10-25K), USB(only 40K), RS485, Programmable dry contact Option SNMP,parallel kit SNMP,parallel kit,LBS Operation Temperature 0 ~ 40 °C Storage Temperature -40 ~ 70 °C Relative Humidity 0 ~ 95% Non condencing Noise (1 meter) 65dB @ 100% load, 62dB @ 45% load Dimension W*D*H (mm) 438*780*130 438*780*130 438*700*174 438*700*174	Output THDu	<5.5% full non-	<5.5% full non-linear load					
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AC Mode 95.0%max 95.5%max 96.0%max 96.0%max 96.0%max 96.0%max 95.5%max 95.								
DisplayLED + LCD+Touch ScreenInterfaceRS232(only 10-25K), USB(only 40K), RS485, Programmable dry contactOptionSNMP,parallel kitSNMP,parallel kit,LBSOperation Temperature $0 \sim 40 ^{\circ}\text{C}$ Storage Temperature $-40 \sim 70 ^{\circ}\text{C}$ Relative Humidity $0 \sim 95\%$ Non condencingNoise (1 meter) $65\text{dB} \otimes 100\%$ load, $62\text{dB} \otimes 45\%$ loadDimension W*D*H (mm) $438*780*130$ $438*780*130$ $438*780*130$ $438*700*174$ $438*700*174$	AC Mode	95.0%max		95.5%max		96.0%max	96.0%max	
Interface RS232(only 10-25K), USB(only 40K), RS485, Programmable dry contact Option SNMP, parallel kit SNMP, parallel kit, LBS Operation Temperature $0 \sim 40 ^{\circ}\text{C}$ Storage Temperature $-40 \sim 70 ^{\circ}\text{C}$ Relative Humidity $0 \sim 95\%$ Non condencing Noise (1 meter) $65\text{dB} \otimes 100\%$ load, $62\text{dB} \otimes 45\%$ load Dimension W*D*H (mm) $438*780*130$ $438*780*130$ $438*700*174$ $438*700^{\circ}$	Battery Mode	94.5%max		95%max		95.5%max	95.5%max	
OptionSNMP, parallel kitSNMP, parallel kit, LBSOperation Temperature $0 \sim 40 ^{\circ}\text{C}$ Storage Temperature $-40 \sim 70 ^{\circ}\text{C}$ Relative Humidity $0 \sim 95\%$ Non condencingNoise (1 meter) $65\text{dB} \otimes 100\%$ load, $62\text{dB} \otimes 45\%$ loadDimension W*D*H (mm) $438*780*130$ $438*780*130$ $438*700*174$ $438*700*174$	Display	LED + LCD+Touch Screen						
Operation Temperature $0 \sim 40 ^{\circ}\text{C}$ Storage Temperature $-40 \sim 70 ^{\circ}\text{C}$ Relative Humidity $0 \sim 95\%$ Non condencing Noise (1 meter) $65\text{dB} \otimes 100\%$ load, $62\text{dB} \otimes 45\%$ load Dimension W*D*H (mm) $438*780*130$ $438*780*130$ $438*700*174$ $438*700*174$ $438*700*174$	Interface	RS232(only 10-25K), USB(only 40K), RS485, Programmable dry contact						
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Relative Humidity 0 ~ 95% Non condencing Noise (1 meter) 65dB @ 100% load, 62dB @ 45% load Dimension W*D*H (mm) 438*780*130 438*780*130 438*700*174 438*700*174	Operation Temperature	0 ~ 40 ℃	0 ~ 40 °C					
Noise (1 meter) 65dB @ 100% load, 62dB @ 45% load Dimension W*D*H (mm) 438*780*130 438*780*130 438*700*174 438*700*174	Storage Temperature	-40 ~ 70 °C	-40 ~ 70 °C					
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	Noise (1 meter)	65dB @ 100%	65dB @ 100% load, 62dB @ 45% load					
Weigh (kg) 25 30 41 41	Dimension W*D*H (mm)	438*78	30*130	438*78	30*130	438*700*174	438*700*174	
20 00 11	Weigh (kg)	2	5	3	0	41	41	