

# DELTRONICS VENUS SERIES

3:3 phase PF 1.0, POWER RANGE: 10-30 KVA

deltronics.com.ar



**DELTRONICS**

## Deltronics Venus RT Series 10-30 KVA

The Venus RT 10-30 kVA UPS is a three-phase, online double-conversion system with a true 1.0 power factor, designed to deliver stable power to critical infrastructures. Its wide input voltage range, generator compatibility, and high operating efficiency ensure continuous performance even under severe mains fluctuations.

It supports both rack and tower installations, integrates intelligent communication, advanced monitoring, and multiple protection features to ensure safe and reliable operation in industrial and corporate environments.



### Features

- High power density design
- N+X parallel redundancy, support maximum 4 units in parallel Online double conversion with DSP control
- Input current harmonic: <3%
- Wide input voltage range: 138~485Vac Wide input frequency range 40~70Hz
- Configurable battery quantity 10~30kVA: (30~50pcs supportable VRLA)
- Support Lithium battery ( $\pm 192Vdc$ )
- Maximum charging current up to 18A (VRLA) Dual input source
- Colorful 7 inch LCD display
- Versatile LCD human-computer interface Generator compatible
- ECO mode operation for energy saving
- Self-testing when UPS startup 50/60Hz frequency converter mode Cold start
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- Multiple communication interface: USB, RS232, RS485, RS485(COM For Li-ion), Parallel port, Dry contact port, Backfeed port, Intelligent slot, SNMP card (optional)



Rear panel



SNMP card



Parallel cable

**Technical Specifications**

Model		VN-33-10KRT	VN-33-15KRT	VN-33-20KRT	VN-33-25KRT	VN-33-30KRT
Capacity (VA/Watts)		10k /10k	15k /15k	20k /20k	25k /25k	30k /30k
<b>INPUT</b>						
Input	Rectifier input	Rated AC Input Voltage	380/220Vac, 400/230Vac or 415/240Vac, 50/60Hz (3Phase+Neutral+PE)			
		Input Voltage Range (Startup/Operating)	138~485Vac for 40% load			
		Input Voltage Range (Operating)	305~485Vac for full-load			
		Frequency	50 or 60Hz (40-70Hz Range)			
		Power Factor	0.99 (100% linear load)			
		Harmonic distortion (THDI)	≤3% (100% linear load)			
	Bypass input	Rated AC Voltage	380/220Vac, 400/230Vac or 415/240Vac, 50/60Hz (3Phase+Neutral+PE)			
		Bypass voltage Range	220Vac Upper limit: +25%(optional +10%,+15%,+20% ) 230Vac Upper limit: +20%(optional +10%,+15% ) 240Vac Upper limit:+15%(optional +10% )			
			Lower limit: -45% (optional -10%, -15%, -20%, -30%)			
		Bypass frequency Range	±10%			
		Synchronization - Window	±1%/±2%/±4%/±5%/±10% optional (default:±10%)			
		Up stream protection, bypass line	Thermomagnetic circuit-breaker, rated up to 125% of nominal output current. IEC 60947-2 curve C.			
		Overload Capacity	Load≤ 130%: continue, <200%: last 1min, ≥ 200%: last 100ms shut down UPS			
	Current rating of neutral cable (A)	1.7×In				
<b>OUTPUT</b>						
Inverter Output	Power factor	1				
	Rated AC Voltage 1	380/220Vac, 400/230Vac or 415/240Vac, 50/60Hz (3Phase+Neutral+PE)				
	Voltage Regulation	±1%				
	Transient Voltage Response	±5% (linear load)				
	Phase Balance	120° ±1° (100% unbalanced load)				
	Frequency	1.Line Mode: synchronize with input ; when input frequency > ±10% (±1%/±2%/±4%/±5% optional), output (50/60±0.1%)Hz. 2.Battery Mode:(50/60±0.1%)Hz				
	Crest factor	3:1				
	Harmonic distortion (THD)	≤ 2% (linear load), ≤ 4% (non linear load)				
Overload Capacity	AC Mode	Load≤105%:continue, ≤110%: last 60min, ≤125%: last 10min, ≤150%: last 1min, >150% turn to bypass immediately				
	Bat. Mode	Load≤105%:continue, ≤110%: last 60min, ≤125%: last 10min, ≤150%: last 1min, >150% shut down UPS immediately				
Efficiency	Normal mode	Up to 95.5%				
<b>BATTERY</b>						
Battery Voltage	VRLA battery	±192/204/216/228/240Vdc (Settable, ±192/204V: output power factor 0.9)				
	Lithium battery	±192Vdc				
Charge Current(A)	charge current can be set according to battery capacity installed	Max. current 13A (limited by input current)				
<b>SYSTEM FEATURES</b>						
Transfer Time	Synchronous transfer	Utility to Battery : 0ms; Utility to bypass: 0ms				
	Asynchronous transfer	Asynchronous transfer: 15ms (50 Hz), 13.3ms (60 Hz)				
Parallel system	Up to 4					
Alarms	overload, utility abnormal, UPS fault, battery low, etc.					
Protection	short circuit, overload, over temperature, battery low, fan fault alarm.					
Communication Interface	USB, RS232,RS485, Parallel port, Dry contact, Intelligent slot, SNMP card(optional),Battery temperature sensor(optional)					
<b>ENVIRONMENTAL</b>						
Environment	Operating Temperature	0°C~40°C				
	Storage Temperature	-25°C~55°C (battery)				
	Humidity	0~95% non condensing				
	Acoustical Noise	<58dB from 1M distance				
	Altitude	Up to 1,000 m, without derating				
<b>PHYSICAL</b>						
Dimension W×D×H (mm)		440x670x131 (3U)				
Net weight (kg)		25	27		28	
<b>STANDARDS</b>						
Safety certifications		IEC 62040-1:2017 AMD1:2021				
EMC		IEC 62040-2:2016/EN62040-2:2018				

1. Specifications are subject to change without prior notice  
 2. Data above are typical values for reference only, not as a basis for engineering design