

**GENERAL**

Rated power: 4kVA, 5kVA, 6kVA, 8kVA, 10kVA, 12kVA with a power factor of 0.7  
 Technology: True on-line, double conversion topology with integral automatic bypass

**INPUT**

Phase: Single phase plus ground  
 Input Bypass Voltage: 184 - 265 VAC (+15% to -20% of 230V nominal - user selectable)  
 Input Voltage range: 120 / 140 / 160 / 180VAC - 276 VAC  
 (120V - 276V @ 25% load, 140V - 276V @ 50% load, 160V - 276V @ 75% load, 180V - 276V @ 100% load)  
 Frequency: 50 / 60 Hz Auto-sensing  
 AC Frequency range: 45 - 65 Hz  
 Synchronization range:  $\pm 3$  Hz  
 Input Current: 4kVA - 15A, 5kVA - 19A, 6kVA - 23A, 8kVA - 30A, 10kVA - 38A, 12kVA - 46A  
 Input Power factor: 0.97

**OUTPUT**

Output Voltage: 208 / 220 / 230 / 240 VAC (user selectable)  
 Voltage regulation:  $\pm 2\%$   
 Voltage distortion:  $< 5\%$  THD with non-linear loads,  $< 3\%$  THD with linear loads  
 Frequency regulation:  $\pm 0.25$  Hz (while on battery or in free run mode)  
 Dynamic response:  $\pm 9\%$  max from 100% to 20% or from 20% to 100% linear load  
 Overload capacity: 100 - 125% for 1 min, 126 - 150% for 10 sec  
 Efficiency (HE Mode): Greater than 95%  
 Efficiency (On-line Mode): Greater than 88%  
 Crest Factor: 3 : 1

**ENVIRONMENTAL**

Ambient temperature range: +32 °F to +104°F (+0 °C to +40 °C)  
 Optimum temperature range: +59 °F to +77°F (+15 °C to +25 °C)  
 Storage temperature: +5 °F to +122°F (-15 °C to +50 °C)  
 Cooling: Forced air cooling  
 Humidity: 0-95%, non-condensing  
 Elevation: 10,000 feet max (operation), 45,000 feet (storage)  
 Audible noise:  $< 55$  db normal and battery mode (4000-8000 VA models)  
 $< 55$  db normal and battery mode (10000-12000 VA models)

**STANDARDS**

Safety: EN50091-1-1  
 Emissions: EN50091-2 class B  
 Immunity: EN50091-2  
 Conformity: UL 1778, CSA 107.1, 107.2, CE  
 Transient Immunity: Per IEEE C 61000-4-5 level 3

**Tower Models**

Model Number	VTWE-4000-02	VTWE-5000-02	VTWE-6000-02	VTWE-8000-02	VTWE-10000-02	VTWE-12000-02
<b>Capacity</b>	4kVA / 2.8kW	5kVA / 3.5kW	6kVA / 4.2kW	8kVA / 5.6kW	10kVA / 7kW	12kVA / 8.4kW
<b>Input Connection</b>	Hardwire Terminal Block or Fixed		Hardwire Terminal Block and/or various IEC Receptacles			
<b>Output Connection Options</b>	IEC 320 10A and 16A IEC and NEMA L6-30R IEC and Shuko (European)		Hardwire Terminal Block and/or various IEC Receptacles Hardwire Terminal Block and/or various NEMA Receptacles Hardwire Terminal Block and/or various European Receptacles			
<b>Battery Type &amp; Rating</b>	Sealed, lead-acid 7.2Ah/12V	Sealed, lead-acid 9Ah/12V	Sealed, lead-acid 7.2Ah/12V	Sealed, lead-acid 7.2Ah/12V	Sealed, lead-acid 9Ah/12V	Sealed, lead-acid 7.2Ah/12V
<b>Battery Quantity</b>	10	10	20	20	20	40
<b>Backup Time (full load)</b>	6 min	6 min	7 min	5 min	6 min	5 min
<b>Recharge Time</b>	<4 hours to 90 %					
<b>Dimensions in / mm W x D x H</b>	10.1 x 21.1 x 17.3 257 x 537 x 440		10.2 x 27.6 x 27.6 258 x 700 x 700	10.2 x 27.6 x 27.6 258 x 700 x 700		13.5 x 27 x 34.6 342 x 690 x 878
<b>Weight lbs. / kg</b>	95 / 43		176 / 80	189 / 86		286 / 130

**19" Rack Mount Models**

Model Number	VRTE-4000-02	VRTE-5000-02	VRTE-6000-02	VRTE-8000-02	VRTE-10000-02	VRTE-12000-02
<b>Capacity</b>	4kVA / 2.8kW	5kVA / 3.5kW	6kVA / 4.2kW	8kVA / 5.6kW	10kVA / 7kW	12kVA / 8.4kW
<b>Input Connection</b>	Hardwire Terminal Block or Fixed					
<b>Output Connection Options</b>	Hardwire Terminal Block and various IEC Receptacles Hardwire Terminal Block and various NEMA Receptacles Hardwire Terminal Block and various European Receptacles					
<b>Battery Type &amp; Rating</b>	Sealed, lead-acid 5Ah/12V	Sealed, lead-acid 5Ah/12V	Sealed, lead-acid 7.2Ah/12V	Sealed, lead-acid 7.2Ah/12V	Sealed, lead-acid 9Ah/12V	Sealed, lead-acid 9Ah/12V
<b>Battery Quantity</b>	10*	10*	20**	20**	20**	40**
<b>Backup Time (full load)</b>	4 min	3 min	7 min	5 min	6 min	5 min
<b>Recharge Time</b>	<4 hours to 90 %					
<b>Dimensions in / mm W x D x H</b>	16.9 x 25.9 x 10.3 428 x 657 x 260		16.9 x 23.6 x 10.3 428 x 597 x 260	16.9 x 25.9 x 10.3 428 x 657 x 260		
<b>Weight lbs. / kg</b>	88 / 40		189 / 86	203 / 92		

\*4kVA and 5kVA models have internal batteries.

\*\*6kVA, 8kVA, 10kVA and 12kVA models have external batteries.