

120V Models**GENERAL**

Rated Capacity: 700VA, 1000VA, 1500VA, 2000VA, 3000VA with a power factor of 0.7
Technology: True on-line, double conversion topology with integral automatic bypass

INPUT

Phase: Single phase plus ground
Bypass Voltage: 96 - 138 VAC (user selectable)
Input Voltage range: 60 / 70 / 80VAC - 144 VAC
(60V @ 40%, 70V @ 70%, 80V @ 100% load)
Frequency: 50 / 60 Hz Auto sensing
AC Frequency range: 45 - 65 Hz
Synchronization range: ± 3 Hz
Input Current: 700VA - 4.78, 1000VA - 6.83, 1500VA - 10.25, 2000VA - 13.66, 3000 VA - 20.50
Input Power factor: 0.97

OUTPUT

Output Voltage: 100 / 110 / 115 / 120 / 127 VAC (user selectable)
Voltage regulation: $\pm 2\%$
Voltage distortion: $< 5\%$ THD with non-linear loads, $< 3\%$ THD with linear loads
Frequency regulation: ± 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, 125 - 150% for 10 sec
Efficiency (HE Mode): Greater than 95%
Efficiency (On-line Mode): Greater than 86%
Crest Factor: 3 : 1

230V Models**GENERAL**

Rated power: 700VA, 1000VA, 1500VA, 2000VA, 3000VA with a power factor of 0.7
Technology: True on-line, double conversion topology with integral automatic bypass

INPUT

Phase: Single phase plus ground
Bypass Voltage: 184 - 265 VAC (user selectable)
Input Voltage range: 120 / 140 / 160 VAC - 276 VAC
(120V @ 40%, 140V @ 70%, 160V @ 100% load)
Frequency: 50 / 60 Hz Auto-sensing
AC Frequency range: 45 - 65 Hz
Synchronization range: ± 3 Hz
Input Current: 700VA - 2.49, 1000VA - 3.56, 1500VA - 5.34, 2000VA - 7.13, 3000VA - 10.69
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: ± 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, 125 - 150% for 10 sec
Efficiency (HE Mode): Greater than 95%
Efficiency (On-line Mode): Greater than 86%
Crest Factor: 3 : 1

All Models
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:	< 45 db normal and battery mode (700-1000 VA models)	
	< 50 db normal and battery mode (1500-3000 VA models)	

STANDARDS

Safety:	EN62040-1 (230V) ; UL1778 (120V)
Emissions:	EN62040-2 (230V), FCC Part 15 Subpart B (120V)
Immunity:	EN62040-2 ; Category C1 (1000VA, 1500VA 230V only)
	EN62040-2 ; Category C2 (2000VA, 3000VA 230V only)
Conformity (120V):	UL 1778 5th Edition
Conformity (230V):	CE
Transient Immunity (120V):	Per IEEE 62.41 (formerly IEEE 587)
Transient Immunity (230V):	Per IEEE IEC 61000-4-5 level 3

**MODEL & PART NUMBER DESIGNATION
Plug & Receptacle Version**

120V Tower Models:	VTWE-0700-01, VTWE-1000-01, VTWE-1500-01, VTWE-2000-01, VTWE-3000-01
230V Tower Models:	VTWE-0700-02, VTWE-1000-02, VTWE-1500-02, VTWE-2000-02, VTWE-3000-02
120V Rack-Tower Models (1U):	VRME-0700-01, VRME-1000-01
230V Rack-Tower Models (1U):	VRME-0700-02, VRME-1000-02
120V Rack-Tower Models (2U):	VRTE-0700-01, VRTE-1000-01, VRTE-1501-01, VRTE-2000-01, VRTE-3000-01
230V Rack-Tower Models (2U):	VRTE-0700-02, VRTE-1000-02, VRTE-1500-02, VRTE-2000-02, VRTE-3000-02

Hardwire Terminal Version

120V Tower Models:	VTWE-0700-H1, VTWE-1000-H1, VTWE-1500-H1, VTWE-2000-H1, VTWE-3000-H1
230V Tower Models:	VTWE-0700-H2, VTWE-1000-H2, VTWE-1500-H2, VTWE-2000-H2, VTWE-3000-H2
120V Rack-Tower Models (2U):	VRTE-1000-H1, VRTE-1501-H1, VRTE-2000-H1, VRTE-3000-H1
230V Rack-Tower Models (2U):	VRTE-1000-H2, VRTE-1500-H2, VRTE-2000-02, VRTE-3000-H2

120V Tower Models

Model Number	VTWE-0700-01	VTWE-1000-01	VTWE-1500-01	VTWE-2000-01	VTWE-3000-01
Capacity	700VA 490W	1000VA 700W	1500VA 1050W	2000VA 1400W	3000VA 2100W
Input Plug	NEMA 5-15P	NEMA 5-15P	NEMA 5-15P	NEMA 5-20P	NEMA L5-30P
Input Connection	Fixed Power Cord				
Output Connection	6 x NEMA 5-15R			12 x NEMA 5-15R	
Battery Type & Rating	Sealed, lead-acid 7.2Ah/12V	Sealed, lead-acid 7.2Ah/12V	Sealed, lead-acid 9Ah/12V	Sealed, lead-acid 7.2Ah/12V	Sealed, lead-acid 9Ah/12V
Battery Quantity	2	3	3	6	6
Backup Time (full load)	7 min	6 min	5 min	6 min	5 min
Recharge Time	<4 hours to 90 %				
Dimensions in / mm W x D x H	6 x 16.5 x 9.4 152 x 420 x 238			8.9 x 16.7 x 14.2 225 x 425 x 360	
Weight lbs. / kg	29.7 / 13.5	35.7 / 16.2	37.4 / 17	69.5 / 31.6	72.6 / 33

120V 19" Rack Mount Models (2U)

Model Number	VRTE-0700-01	VRTE-1000-01	VRTE-1501-01	VRTE-2000-01	VRTE-3000-01
Capacity	700VA 490W	1000VA 700W	1500VA 1050W	2000VA 1400W	3000VA 2100W
Input Plug	NEMA 5-15P	NEMA 5-15P	NEMA 5-15P	NEMA 5-20P	NEMA L5-30P
Input Connection	Fixed Power Cord				
Output Connection	6 x NEMA 5-15R			4 x NEMA 5-15R	
Battery Type & Rating	Sealed, lead-acid 7.2Ah/12V	Sealed, lead-acid 7.2Ah/12V	Sealed, lead-acid 9Ah/12V	Sealed, lead-acid 7.2Ah/12V	Sealed, lead-acid 9Ah/12V
Battery Quantity	2	3	3	6	6
Backup Time (full load)	7 min	6 min	5 min	6 min	5 min
Recharge Time	<4 hours to 90 %				
Dimensions in / mm W x D x H	16.8 x 16.7 x 3.3 428 x 426 x 84			16.8 x 24.8 x 3.3 428 x 631 x 84	
Weight lbs. / kg	32 / 14.6	38 / 17.3	39.8 / 18.1	69.5 / 31.6	72.6 / 33

120V 19" Rack Mount Models (1U)

Model Number	VRME-0700-01	VRME-1000-01
Capacity	700VA 490W	1000VA 700W
Input Plug	NEMA 5-15P	NEMA 5-15P
Input Connection	Fixed Power Cord	
Output Connection	3 x NEMA 5-15R	
Battery Type & Rating	Sealed, lead-acid 7Ah/6V	
Battery Quantity	4	
Backup Time (full load)	6 min	4 min
Recharge Time	<4 hours to 90%	
Dimensions in / mm W x D x H	16.9 x 20.7 x 1.73 428 x 525 x 44	
Weight lbs. / kg	34.1 / 15.5	

230V Tower Models

Model Number	VTWE-0700-02	VTWE-1000-02	VTWE-1500-02	VTWE-2000-02	VTWE-3000-02
Capacity	700VA 490W	1000VA 700W	1500VA 1050W	2000VA 1400W	3000VA 2100W
Input Plug	IEC C14 (10A)	IEC C14 (10A)	IEC C14 (10A)	IEC C14 (10A)	IEC C20 (16A)
Input Connection	Detachable Power Cord				
Output Connection	6 x IEC C13			8 IEC C13 + 1 IEC C19	
Battery Type & Rating	Sealed, lead-acid 7.2Ah/12V	Sealed, lead-acid 7.2Ah/12V	Sealed, lead-acid 9Ah/12V	Sealed, lead-acid 7.2Ah/12V	Sealed, lead-acid 9Ah/12V
Battery Quantity	2	3	3	6	6
Backup Time (full load)	7 min	6 min	5 min	6 min	5 min
Recharge Time	<4 hours to 90 %				
Dimensions in / mm W x D x H	6 x 16.5 x 9.4 152 x 420 x 238			8.9 x 16.7 x 14.2 225 x 428 x 360	
Weight lbs. / kg	29 / 13.5	35.7 / 16.2	37.4 / 17	69.5 / 31.6	72.6 / 33

230V 19" Rackmount Models (2U)

Model Number	VRTE-0700-02	VRTE-1000-02	VRTE-1500-02	VRTE-2000-02	VRTE-3000-02
Capacity	700VA 490W	1000VA 700W	1500VA 1050W	2000VA 1400W	3000VA 2100W
Input Plug	IEC C14 (10A)	IEC C14 (10A)	IEC C14 (10A)	IEC C14 (10A)	IEC C20 (16A)
Input Connection	Detachable Power Cord				
Output Connection	6 x IEC C13			4 x IEC C13 + 1 IEC C19	
Battery Type & Rating	Sealed, lead-acid 7.2Ah/12V	Sealed, lead-acid 7.2Ah/12V	Sealed, lead-acid 9Ah/12V	Sealed, lead-acid 7.2Ah/12V	Sealed, lead-acid 9Ah/12V
Battery Quantity	2	3	3	6	6
Backup Time (full load)	7 min	6 min	5 min	6 min	5 min
Recharge Time	<4 hours to 90 %				
Dimensions in / mm W x D x H	16.9 x 16.7 x 3.3 428 x 425 x 84			16.9 x 24.8 x 3.3 428 x 631 x 84	
Weight lbs. / kg	32 / 14.6	38 / 17.3	39.8 / 18.1	69.5 / 31.6	72.6 / 33

230V 19" Rackmount Models (1U)

Model Number	VRME-0700-02	VRME-1000-02
Capacity	700VA 490W	1000VA 700W
Input Plug	IEC C14 (10A)	IEC C14 (10A)
Input Connection	Detachable Power Cord	
Output Connection	4 x IEC 320 (10A)	
Battery Type & Rating	Sealed, lead-acid 7Ah/ 6V	
Battery Quantity	4	
Backup Time (full load)	6 min	4 min
Recharge Time	<4 hours to 90%	
Dimensions in / mm W x D x H	16.9 x 20.7 x 1.73 428 x 525 x 44	
Weight lbs. / kg	34.1 / 15.5	