

**120V Models****GENERAL**

Rated Capacity: 700VA, 1000 VA, 1500 VA, 2000 VA, 3000 VA 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: ± 3Hz  
Input Current: 700VA - 5.8A, 1000VA - 8.2A, 1500VA - 12.4A, 2000VA - 16.5A  
3000 VA - 24.7A  
Input Power factor: 0.97

**OUTPUT**

Output Voltage: 100 / 110 / 115 / 120 / 127 VAC (user selectable)  
Voltage regulation: ± 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: ± 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 92%  
Efficiency (On-line Mode): Greater than 88%  
Crest Factor: 3 : 1

**230V Models****GENERAL**

Rated power: 700VA, 1000 VA, 1500 VA, 2000 VA, 3000 VA 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: ± 3Hz  
Input Current: 700VA - 3A, 1000VA - 4A, 1500VA - 5.7A, 2000VA - 7.7A, 3000VA - 12A  
Input Power factor: 0.97

**OUTPUT**

Output Voltage: 208 / 220 / 230 / 240 VAC (user selectable)  
Voltage regulation: ± 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: ± 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 92%  
Efficiency (On-line Mode): Greater than 88%  
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:	EN50091-1-1
Emissions:	EN50091-2 class B
Immunity:	EN50091-2
Conformity:	UL 1778, cUL 107.1, 107.2, CE
Transient Immunity (120V):	Per IEEE 62.41 (formerly IEEE 587)
Transient Immunity (230V):	Per IEEE C 61000-4-5 level 3

**MODEL & PART NUMBER DESIGNATION**

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-1500-01, 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

**120V Tower Models**

Capacity	700VA / 490 W	1000VA / 700W	1500VA / 1050W	2000VA / 1400W	3000VA / 2100W
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 ins/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)**

Capacity	700VA / 490 W	1000VA / 700W	1500VA / 1050W	2000VA / 1400W	3000VA / 2100W
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 ins/mm W x D x H	16.9 x 16.7 x 3.3 428 x 425 x 84			16.9 x 24 x 3.3 428 x 610 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 Model (1U)**

Capacity	700VA / 490 W	1000VA / 700W
Input Connection	Fixed power cord	
Output Connection	4 x IEC 320 (10A)	
Options	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 ins/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**

Capacity	700VA / 490 W	1000VA / 700W	1500VA / 1050W	2000VA / 1400W	3000VA / 2100W
Input Connection	IEC 320 (10A)				IEC 320 (16A)
Output Connection Options	4 x IEC 320 (10A)			8 x IEC 320 (10A), 1 x IEC 320 (16A)	
	4 x NEMA 6-15R			NEMA 6-15R, 6-20R, 6-30R	
	2 x European			6 x European, 1 x IEC 320 (16A)	
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%				
Dims ins/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

**230V 19" Rack-mount Models (2U)**

Capacity	700VA / 490 W	1000VA / 700W	1500VA / 1050W	2000VA / 1400W	3000VA / 2100W
Input Connection	IEC 320 (10A)				IEC 320 (16A)
Output Connection Options	4 x IEC 320 (10A)			8 x IEC 320 (10A), 1 x IEC 320 (16A)	
	4 x NEMA 6-15R			NEMA 6-15R, 6-20R, 6-30R	
	2 x European			6 x European, 1 x IEC 320 (16A)	
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 ins/mm W x D x H	16.9 x 16.7 x 3.3 428 x 425 x 84			16.9 x 24 x 3.3 428 x 610 x 84	
Weight lbs/kg	32 / 14.6	38 / 17.3	39.8 / 18.1	69.5 / 31.6	72.6 / 33

**230V 19" Rack-mount Models (1U)**

Capacity	700VA / 490 W	1000VA / 700W
Input Connection	IEC 320 (10A)	
Output Connection	4 x IEC 320 (10A)	
	3 x 5-15R (US)	
Battery Type & Rating	Sealed, Lead-acid 7 Ah/ 6V	
Battery Quantity	4	4
Backup time (Full load)	6 min	4 min
Recharge time	<4 hours to 90%	
Dimensions ins/mm W x D x H	16.9 x 20.7 x 1.73 428 x 525 x 44	
Weight kg	34.1 / 15.5	