

120V Models**GENERAL**

Rated Capacity: 1000VA, 1500VA, 2000VA, 3000VA with a power factor of 0.9
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: 100-120 VAC
Frequency: (60V @ 25%, 70V @ 50%, 80V @ 75% load, 90V @ 100%) 50 / 60 Hz Auto sensing
AC Frequency range: 45 - 65 Hz
Synchronization range: $\pm 5\%$
Input Current: 1000VA - 8.6A, 1500VA - 13.2A, 2000VA - 17.6A, 3000VA - 26.4A
Input Power factor: 0.97

OUTPUT

Output Voltage: 100 / 110 / 115 / 120 VAC (user selectable)
Voltage regulation: $\pm 2\%$
Voltage distortion: $< 5\%$ THD with non-linear loads, $< 2.5\%$ 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: 106 - 120% for 30 sec, 121 - 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: 1000VA, 1500VA, 2000VA, 3000VA, 6000VA, 10000VA with a power factor of 0.9
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 / 180 VAC - 276 VAC
Frequency: (120V @ 25%, 140V @ 50%, 160V @ 75%, 180V @ 100% load) 50 / 60 Hz Auto-sensing
AC Frequency range: 45 - 65 Hz
Synchronization range: $\pm 5\%$
Input Current: 1000VA - 4.7A, 1500VA - 7A, 2000VA - 9.4A, 3000VA - 14.1A, 6000VA - 28.9, 10000VA - 48A
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, $< 2.5\%$ 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: 106 - 120% for 30sec, 121 - 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:	6562 feet / 2000 meters max (operation)	
Audible noise:	< 45 db normal and battery mode (1000,1500 VA models)	
	< 50 db normal and battery mode (2000,3000 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 C 61000-4-5 level 3

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

120V Tower Models:	VTWP-1000-01, VTWP-1500-01, VTWP-2000-01, VTWP-3000-01
230V Tower Models:	VTWP-1000-02, VTWP-1500-02, VTWP-2000-02, VTWP-3000-02, VTWP-6000-02, VTWP-10000-02
120V Rack-Tower Models (2U):	VRTP-1000-01, VRTP-1500-01, VRTP-2000-01, VRTP-3000-01
230V Rack-Tower Models (2U):	VRTP-1000-02, VRTP-1500-02, VRTP-2000-02, VRTP-3000-02, VRTP-6000-02, VRTP-10000-02

Hardwire Terminal Version

120V Tower Models:	VTWP-1000-H1, VTWP-1500-H1, VTWP-2000-H1, VTWP-3000-H1
230V Tower Models:	VTWP-1000-H2, VTWP-1500-H2, VTWP-2000-H2, VTWP-3000-H2
120V Rack-Tower Models (2U):	VRTP-1000-H1, VRTP-1500-H1, VRTP-2000-H1, VRTP-3000-H1
230V Rack-Tower Models (2U):	VRTP-1000-H2, VRTP-1500-H2, VRTP-2000-H2, VRTP-3000-H2

120V Tower Models

Model Number	VTWP-1000-01	VTWP -1500-01	VTWP -2000-01	VTWP -3000-01
Capacity	1000VA 900W	1500VA 1350W	2000VA 1800W	3000VA 2700W
Input Connection	6' Power Cord NEMA 5-15P	6' Power Cord NEMA 5-15P	6' Power Cord NEMA 5-20P	6' Power Cord NEMA L5-30P
Output Connection*	6 x NEMA 5-15R		12 x NEMA 5-20R OR 10 x NEMA 5-20R 1 x NEMA L5-20R	12 x NEMA 5-20R OR 10 x NEMA 5-20R 1 x NEMA L5-30R
Battery Type & Rating	Sealed, lead-acid 7Ah/12V	Sealed, lead-acid 7Ah/12V	Sealed, lead-acid 7.2Ah/12V	Sealed, lead-acid 7Ah/12V
Battery Quantity	3	4	6	8
Backup Time (full load)	3-5 min			3-4 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 239	6 x 19.7 x 9.4 152 x 500 x 239	8.9 x 16.5 x 14.1 226 x 420 x 358	
Weight lbs. / kg	29.7 / 13.5	40.3 / 18.3	58.3 / 26.5	69.3 / 31.5

120V 19" Rack Mount Models (2U)

Model Number	VRTP-1000-01	VRTP -1500-01	VRTP -2000-01	VRTP -3000-01
Capacity	1000VA 900W	1500VA 1350W	2000VA 1800W	3000VA 2700W
Input Connection*	6' Power Cord NEMA 5-15P	6' Power Cord NEMA 5-15P	6' Power Cord NEMA 5-20P	6' Power Cord NEMA L5-30P
Output Connection	6 x NEMA 5-15R		4 x NEMA 5-20R OR 2 x NEMA 5-20R 1 x NEMA L5-20R	4 x NEMA 5-20R OR 2 x NEMA 5-20R 1 x NEMA L5-30R
Battery Type & Rating	Sealed, lead-acid 7Ah/12V			Sealed, lead-acid 9Ah/12V
Battery Quantity	3	4	6	6
Backup Time (full load)	3-5 min	3-5 min	3-5 min	3-4 min
Recharge Time	<4 hours to 90 %			
Dimensions in / mm W x D x H	16.9 x 16.7 x 3.3 429 x 425 x 84	16.9 x 19.7 x 3.3 429 x 500 x 84	16.9 x 25 x 3.3 429 x 635 x 84	
Weight lbs. / kg	33.5 / 15.2	45.8 / 20.8	63.8 / 29	

* The output connections listed above are standard. Various other options are available including but not limited to twist-lock, hardwire terminal blocks and various European types. Please contact Marathon Power for further information on these options or for custom configurations.

230V Tower Models

Model Number	VTWP-1000-02	VTWP-1500-02	VTWP -2000-02	VTWP -3000-02	VTWP-6000-02	VTWP-10000-02
Capacity	1000VA 900W	1500VA 1350W	2000VA 1800W	3000VA 2700W	6000VA 5400W	10000VA 9000W
Input Connection	6' Power Cord IEC C14 (10A) Recessed socket			6' Power Cord IEC C20 (16A) Recessed socket	6-Position Terminal Blocks, 57A, Bolt Size: M5	6-Position Terminal Blocks, 57A, Bolt Size: M5
Output Connection*	4 x IEC 320(10A)		8 x IEC C13(10A) 1 x IEC C19(16A)		6-Position Terminal Blocks, 57A, Bolt Size: M5	6-Position Terminal Blocks, 57A, Bolt Size: M5
Battery Type & Rating	Sealed, lead-acid 7Ah/12V					Sealed, lead-acid 9Ah/12V
Battery Quantity	3	4	6	6	20	20
Backup Time (full load)	3-5 min	3-5 min	3-5 min	3-4 min	8-10 min	7-9min
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 239	6 x 19.7 x 9.4 152 x 500 x 239	8.9 x 16.5 x 14.1 226 x 420 x 358		10.2 x 23.2 x 22.5 257 x 590 x 570	10.3 x 25.3 x 23 257.4 x 643 x 585
Weight lbs. / kg	29.7 / 13.5	40.3 / 18.3	58.3 / 26.5	69.3 / 31.5	189.2 / 86	211 / 96

230V 19" Rackmount Models (2U)

Model Number	VRTP-1000-02	VRTP-1500-02	VRTP-2000-02	VRTP-3000-02	VRTP-6000-02	VRTP-10000-02
Capacity	1000VA 900W	1500VA 1350W	2000VA 1800W	3000VA 2700W	6000VA 5400W	10000VA 9000W
Input Connection	6' Power Cord IEC C14 (10A) Recessed socket			6' Power Cord IEC C20 (16A) Recessed socket	6-Position Terminal Blocks, 57A, Bolt Size: M5	6-Position Terminal Blocks, 57A, Bolt Size: M5
Output Connection*	4 x IEC C13 (10A)		4 x IEC C13 (10A) 1 x IEC C19 (16A)		6-Position Terminal Blocks, 57A, Bolt Size: M5	6-Position Terminal Blocks, 57A, Bolt Size: M5
Battery Type & Rating	Sealed, lead-acid 7Ah/12V	Sealed, lead-acid 7Ah/12V	Sealed, lead-acid 7Ah/12V	Sealed, lead-acid 9Ah/12V	No Internal Batteries External Battery Pack (EBP) Required	
Battery Quantity	3	4	6	6		
Backup Time (full load)	3-5 min	3-5 min	3-5 min	3-4 min		
Recharge Time	<4 hours to 90 %					
Dimensions in / mm W x D x H	16.9 x 16.7 x 3.3 429 x 425 x 84	16.9 x 19.7 x 3.3 429 x 500 x 84	16.9 x 25 x 3.3 429 x 635 x 84		16.9 x 23.5 x 3.3 429 x 597 x 84	16.9 x 25.9 x 3.3 429 x 658 x 84
Weight lbs. / kg	35.7 / 16.2	37.4 / 17	69.5 / 31.6	72.6 / 33	189.2 / 86	211 / 96

* The output connections listed above are standard. Various other options are available including but not limited to twist-lock, hardwire terminal blocks and various European types. Please contact Marathon Power for further information on these options or for custom configurations.