

GENERAL			
Model Number	VRRN-0700-H1	VRRN-1000-H1	VRRN-1500-H1
Rated Capacity	700VA / 490W	1000VA / 700W	1500VA / 1050W
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		
Input Current (120V)	5.8A	8.2A	12.4A
Input Power Factor	0.97		
OUTPUT			
Output Voltage	110 / 115 / 120/ 127 VAC		
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	Greater than 93% (HE Mode), Greater than 88% (On-line Mode)		
Crest Factor	3 : 1		
PHYSICAL			
Input (AC) Connection	Hardwire Terminals		
Output (AC) Connection	Hardwire Terminals + two NEMA 5-15R		
Dimensions in /mm W x D x H	16.7 x 10 x 5.11 / 424 x 254 x 130		
Weight lbs / kg (net)	15.5 / 7	18.5 / 8.4	20.5 / 9.3
Operating Temperature Range	-20° C to +60° C / -4° F to +140° F (Optimal) -40° C to +75° C / -40° F to +167° F (Maximum)		

**Notes:** 1. These units require external batteries which can be purchased independently or with your UPS as a separate line item.  
2. For estimated back-up times using our Battery packs: <http://www.marathon-power.com/vault-back-up-times.html>