



# 24VDC Ruggedized Vault Rackmount UPS

The Ruggedized Vault Rackmount UPS is a true on-line, double-conversion design with power factor correction. Ideal for the most critical and sensitive applications where the best level of power protection is required in harsh environments. Connected equipment is immune to the slightest power fluctuations, spikes, surges, noise, extended under and over voltages, harmonics and frequency variations.

The UPS features a 24VDC system, which allows flexibility in battery quantities to achieve a wide range of backup times. This advantage enables the UPS to occupy less space compared to a 48VDC system. UPS & power monitoring software, integral auto-bypass, various communication options, extended run-time capability, cold-start, advanced battery management and microprocessor control, are all standard. A host of unique features and options bring exclusivity to the series, including High Efficiency & Free-run mode, an EPO (Emergency Power Off) port and load segmentation control.

The units also feature an interactive, multifunction LCD panel that displays various UPS and related parameters, and the user to check, test and change settings such as output voltage, input and bypass modes from the front panel while the unit is on-line.

## FEATURES & BENEFITS

- True on-line double conversion topology
- NEMA TS2 Certified
- Wide operating temperature range
- 24VDC system for battery quantity flexibility
- Multi-function, four-line LCD control panel
- True sine-wave output with less than 3% THD
- Output voltage regulation to within +/- 2%
- High Efficiency (HE) & Free-run mode
- RS-232 & USB communication interface
- Input PF correction, frequency & bypass mode
- "Cold Start" + 'Gen Set compatibility' mode
- Event counter & timer + Time delay relay
- Emergency power off circuit (EPO)
- Programmable dry contacts
- External temperature probe and fan control

### Ruggedized External Battery Pack

External battery packs (EBP) allow for greater operating temperatures in extended backup-time applications.



### Flexible Battery Options Available



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# Specifications

GENERAL		
Model Number	VRRN-1002-H1	VRRN-1502-H1
Rated Capacity	1000VA / 700W	1500VA / 1050W
Technology	True on-line, double conversion topology with integral automatic bypass	
INPUT		
Phase	Single phase plus ground – Line – Neutral or Line - Line	
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)	6.83A	10.25A
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 and Output Connections	Hardwire Terminals	
Operating Temperature Range	-20° C to +60° C / -4° F to 140° F (Full 1050W Load) -37° C to +74° C / -35° F to 165° F (Max. 840W Load)	
Dimensions in /mm W x D x H	16.85 x 10 x 5.23 / 428 x 254 x 133	
Weight lbs / kg (net)	22 / 10	24 / 10.8
Compliance	NEMA TS2 Certified, Conforms to UL 1778, CSA 107.1	

## Additional Accessories

SNMP / Webcard



Power Transfer Switch (PTS) /  
Maintenance Bypass



Battery Harness Kit



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