MARATHON POWER

Ruggedized Vault
Rack Mount Series

New Product Info

The Ruggedized Vault series is a true on-line, double-conversion design with power factor correction. They are 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.

An extremely wide input voltage tolerance (up to +/- 40%) and an output voltage regulation of within +/- 2% make the Vault one of the most flexible and technologically-advanced UPS's on the market.

Features such as 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. However, a host of unique features and options bring some exclusivity to the series. They include a 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 not only displays various UPS and related parameters, but allows 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. External battery packs (EBP) allow for greater operating temperatures in extended backup-time applications.

The UPS's feature temperature-compensated charging and long life components for improved reliability and increased longevity. Additionally, the units contain conformal coating on all electric components that resist corrosion, rust and decay in extreme environmental conditions.

Suitably rated batteries are required for extreme temperatures.

Features & Benefits

- True on-line double conversion topology

- Wide operating temperature range

- 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

- Multi-function, interactive control panel

- Input PF correction, frequency & bypass mode

- "Cold Start" + 'Gen Set compatibilty' mode

- Event counter & timer + Time delay relay

- Emergency power off circuit (EPO)

Options:
- SNMP / Webcard
- Power transfer switch (PTS) / Maintenance bypass
- Battery wire harness kit

Rack Mount Model Specifications

GENERAL			
Model Number	VRRN-0700-01	VRRN-1000-01	VRRN-1500-01
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

Please contact us for additional information or to discuss your application requirements.
We welcome feedback about your specific OEM and custom needs.