

Component Specifications

Part Numbers
U0700-VRM, U1000-VRM,
U1500-VRM, U2000-VRM,
U3000-VRM

On-Line UPS Series - Rack Mount



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APPLICATION

The Leviton On-Line UPS Series is designed for applications that need reliable protection in the 700VA - 3kVA range. With on-line double conversion topology providing non-stop, clean sine-wave power, Leviton's On-Line UPS Series is the ideal power solution for equipment in computer rooms, small data centers, and other critical environments.

FEATURES

- Models available from 700VA to 3000 VA (3 kVA)
- Utilizes On-Line, Double Conversion technology with zero transfer time (< 1 ms)
- Robust, "Always On" design for high availability environments
- Selectable output voltage: 100V, 110V, 115V, 120V or 127V
- Power Factor Correction for more power-efficient operation
- Provides true sine-wave output at less than 3% THD
- Lev-CON™ line interactive voltage regulation compensates for minor power sags and swells without transferring to battery
- High Efficiency Mode allows machine to run in standby mode, reducing power consumption
- Advanced Battery Management (ABM) extends battery life by up to 50%
- Optional Extended Battery Packs provide additional back up time
- Included UPSMON software provides monitoring and control capability
- Cold start capability allows users to power up the load directly from the UPS without the presence of utility power
- Energy-saving sleep mode
- Protects against surge, overloads, and short-circuits
- User-replaceable, sealed, maintenance-free lead acid batteries
- Includes interface for Emergency Power Off (EPO)

STANDARDS COMPLIANCE

UL 1778 & cUL Listed (File #E195168)
FCC Compliant
ISO 9001 certified

PHYSICAL SPECIFICATIONS

See page 2



Pictured: U2000-VRM

DESIGN CONSIDERATIONS

- High Efficiency Mode turns off the Auto Voltage Regulation capability of the UPS and, consequently, should not be used in areas with significant voltage irregularities
- Tower UPS versions are also available
- Custom configurations available with terminal block; call Leviton Tech Support for details

WARRANTY INFORMATION

For a copy of Leviton product warranties, visit www.levitonvoicedata.com/warranty.

TYPICAL SPECIFICATION

UPS unit shall utilize on-line, double conversion technology and enable a transfer time of less than 1 millisecond, and shall provide true sine-wave output at less than 3% THD. System shall include: selectable output voltage that supports 100V, 110V, 115V, 120V and 127V operation; "cold-start" function allowing the user to power up the load(s) directly from the UPS without the presence of utility power; an interface for Emergency Power Off (EPO); and cooling fans that vary their speed relative to load size. UPS units shall also feature independent input and output circuit breakers to protect against overloads and short-circuits. System shall also allow operation in a power-efficient standby mode for situations when voltage regulation is not needed. Batteries for system shall be user-replaceable, sealed, maintenance-free lead acid batteries and system shall also include the ability to connect additional battery packs to extend back-up time. Unit shall also provide a battery management feature that extends the battery life.

ELECTRONIC FILES

For CAD files, Typical Specs, or Dimensional Line Art (.DXF, .DWG, MS-DOS.eps or .TXT), visit www.levitonvoicedata.com.



For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
Spec sheets and updates are also available at www.levitonvoicedata.com.

2222 - 222nd St. SE • Bothell, WA 98021 USA
Tel: 1-800-722-2082 / 1-425-485-4288 • Fax: 1-425-483-5270 • Int'l Fax: 1-425-485-9170 • GSA Schedule Available.



On-Line UPS Series - Rack Mount



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U3000-VRM

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Specifications		U0700-VRM	U1000-VRM	VGD-1500-RM	U2000-VRM	U3000-VRM	
CAPACITY	Capacity (VA)	700VA	1000VA	1500VA	2000VA	3000VA	
	Capacity (W)	490W	700W	1050W	1400W	2100W	
INPUT	Voltage	100V, 110V, 115V, 120V, 127V					
	Frequency	50 / 60 Hz Auto Sensing					
OUTPUT	Voltage (on battery)	100V, 110V, 115V, 120V, 127V +/-2% (Selectable Output Voltage)					
	Frequency (on battery)	50 / 60 Hz +/-0.5%					
	Transfer Time	Less than 1 millisecond					
	Overload Recovery	Auto transfer to UPS					
	High Efficiency Mode (AC to AC)	> 95%					
	UPS Design Technology	On-Line / Fully digitized microprocessor controlled					
	Output Wave Form	Sinewave					
	Harmonic Distortion	< 3% of THD at linear load					
	Crest Factor	3 : 1					
PROTECTION AND FILTERING	Surge Protection	120V (IEEE C62.41)					
	Overload Protection	125% for one minute and 150% for ten seconds					
	Short Circuit Protection	UPS output cut off immediately or input fuse / circuit breaker protection					
SYSTEM DISPLAY AND WARNING	Visual Display (LCD Model)	Input / output voltage, input / output frequency, on-line mode, back-up mode, battery capacity, load level					
	Audible Alarm (Battery Back-Up)	Beep every five seconds					
	UPS Fault	Continuous beeping sound and LCD display					
	Communication	RS-232 Serial Port and USB					
BATTERY	Type	Sealed, maintenance-free lead acid batteries					
	DC Voltage (V) Battery (1U)	24V / 6V7.2AH x 4			None		
	DC Voltage (V) Battery (2U)	24V / 12V7.2AH x 2	36V / 12V7.2AH x 3	36V / 12V9AH x 3	72V / 12V7.2AH x 6	72V / 12V9AH x 6	
	Typical Recharge time to 90% full	Four hours					
	Management	Self-test, adjustable battery transfer points and alarm settings					
	Battery Protection	Cut off without draining any current when battery is low					
	Cold Start (DC Start)	Yes					
	Back Up Time (Full Load)	7 min	7 min	6 min	7 min	6 min	
	Back Up Time (Half Load)	15 min	15 min	15 min	15 min	15 min	
	PHYSICAL	Input Inlet	NEMA 5-15P (120V)				
Receptacles		NEMA 5-15R (120V)					
Total Receptacles (UPS+Surge/Surge Only)		6 (120V)			12 (120V)		
Dimensions W X D x H Inches (mm)		16.9" x 20.7" x 1.7" (428 x 525 x 44) 1U			None		
		16.9" x 16.7" x 3.3" (428 x 425 x 84) 2U			16.9" x 25.0" x 3.3" (428 x 635 x 84) 2U		
Net Weight lb (kg)		32.1 (14.6)	37.6 (17.1)	39.8 (18.1)	69.5 (31.6)	71.5 (32.5)	
Shipping Weight lb (kg)		36.1 (16.4)	42.5 (19.3)	44.2 (20.1)	74.4 (33.8)	78.5 (35.7)	
ENVIRONMENT	Operating Temperature	0 - 40° / 32 ~ 104°F					
	Storage Temperature	-20 ~ 50°C / -4 ~ 122°F					
	Altitude	3500 meters max					
	Audible Noise (1 meter from surface)	< 40 dbA					
	Relative Humidity	0 ~ 95% humidity, non-condensing					
CONFORMANCE	Safety	UL 1778, CE					
	EMC (EMS / EMI)	IEC 61000-4, FCC Part 15, CISPR 22					
	Warranty	2 Years					
	Equipment Protection Policy	Warranty policy may vary depending on region					

For Applications Engineering Support – Call 1-425-485-4288; in USA call 1-800-722-2082.
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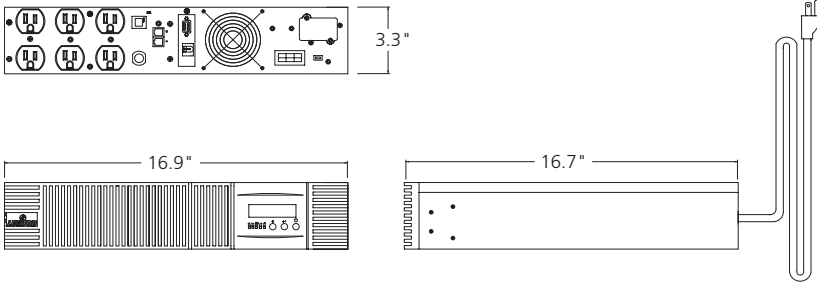
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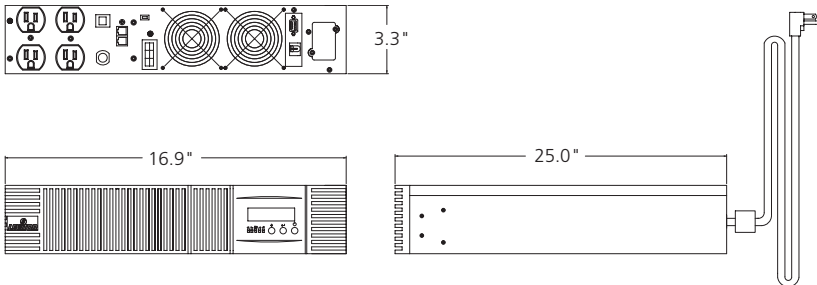
DIMENSIONAL LINE ART

For Dimensional Line Art (.DXF, .DWG, MS-DOS.eps or .TXT),
 log on to www.levitonvoicedata.com.



Shown: U1000-VRM

NOTE: Drawings not to scale.



Shown: U2000-VRM

LEV-UPS SINE ON-LINE SERIES UNINTERRUPTIBLE POWER SUPPLIES, RACK-MOUNT

Description	Output Capacity	Outlet Qty	Typical Back-Up Time Full Load/Half Load	Part No.
On-Line, Pure Sine Wave, 2U	490W / 700VA	6	7 min / 15 min	U0700-VRM
On-Line, Pure Sine Wave, 2U	700W / 1000VA	6	7 min / 15 min	U1000-VRM
On-Line, Pure Sine Wave, 2U, Hardwired	1400W / 2000VA	6	7 min / 15 min	U2000-VRM
On-Line, Pure Sine Wave, 2U, Hardwired	2100W / 3000VA	6	6 min / 15 min	U3000-VRM

LEV-UPS EXTENDED BATTERY PACKS (EBP)

Description	Typical Back-Up Time 1000VA + 1EBP Full Load / Half Load	Typical Back-Up Time 2000VA + 1EBP Full Load / Half Load	Typical Back-Up Time 3000VA + 1EBP Full Load / Half Load	Part No.
Rack-Mount Battery Pack, use only with U1000-VRM	69 min / 148 min	-	-	U1000-RMB
Rack-Mount Battery Pack, use only with U2000-VRM/U3000-VRM	-	33 min / 80 min	19 min / 50 min	U3000-RMB



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