

# Vanguard II



## Tower - Online UPS

The Vanguard II is a true online UPS available in both rack and tower models designed to provide continuous sine wave power output. The series boasts 0.9 power factor, double conversion technology and high frequency design.

The Vanguard II series is an ideal power solution for network server rooms, cloud storage hardware, storage systems, telecommunication centres and critical electronic systems requiring high capacity and stable power supply.

### Key features include:

- 0.9 Power Factor
- Double conversion technology
- Pure sine wave output
- Less than 3% harmonic distortion
- Lightning, surge, short circuit and overload protection
- Advanced battery management system
- Adjustable cooling system
- Multiple communication
- Remote monitoring via USB, RS232, SNMP, etc.
- Option for greater run-time (contact APS for more info)

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## Product Specifications

Model	W/Internal Batteries	UVGS1K	UVGS1.5K	UVGS2K	UVGS3K
	W/O Internal Batteries	UVGS1KL	UVGS1.5KL	UVGS2KL	UVGS3KL
Capacity	1000VA	1500VA	2000VA	3000VA	
	900W	1350W	1800W	2700W	
Input Voltage	220V/230V/240V 120V - 139V under 25% load / 140V - 159V under 50% load / 160V - 179V under 75% load / 180V - 276V with 100% load				
Input Frequency	50/60Hz $\pm$ 2.5Hz – Auto sensing ( $\pm$ 5Hz user selectable)				
Input Power Factor	>0.97				
Output voltage	220V/230V/240V $\pm$ 2% (selectable output voltage)				
Output Frequency	50/60Hz $\pm$ 0.25%				
Output Waveform	Pure Sine Wave				
Single Phase	Yes				
Distortion	< 3% THD – linear load, <5% THD – non-linear load				
Efficiency	89%				
Australian Outlets	Yes				
Overload Protection	Automatic shutdown when: overload > 106-120% of nominal for 30s overload > 121-150% of nominal for 10s				
Short Circuit Protection	Output cut off immediately OR input fuse OR circuit breaker				
Alarms	Beeping under the following conditions: Back-up mode, battery low, battery charging fault and overload				
Telecommunications	RJ45 x 2				
Battery Type	Sealed, maintenance-free lead acid				
Typical Recharge Time	4 hours to 90% full capacity				
Battery Bus Voltage	36V <sub>DC</sub>	48V <sub>DC</sub>	72V <sub>DC</sub>	96V <sub>DC</sub>	
Internal Batteries*	3 x 12V, 9Ah	4 x 12V, 9Ah	6 x 12V, 9Ah	8 x 12V, 9Ah	
Back-up Time at Full Load*	Up to 5 minutes	Up to 4 minutes	Up to 5 minutes	Up to 4 minutes	
Battery Protection	Battery low cut off without draining current				
Display	LED – Line mode (green), Bypass/battery mode (yellow), Fault (red) LCD – I/O voltage & frequency, online mode, back-up mode, battery capacity, load level				
Communication Interface	RS232, USB B-type & SNMP				
Audible Noise	< 45dBA (1m from surface)		< 50dBA (1m from surface)		
Dimensions W x D x H (mm)	152 x 420 x 238	152 x 500 x 238	225 x 420 x 358	225 x 420 x 358	

Net Weight	With Batteries	13.5 kg	18.3 kg	26.5 kg	31.5 kg
	Without Batteries	6.5 kg	8.8 kg	12.3 kg	12.3 kg
Ambient Temperature		0 – 40°C			
Storage Temperature		-15 – 50°C			
Humidity		0 – 95% non-condensing			

\*Only applies to models with internal batteries; does not apply to 'L' models.