

VANGUARD

Multi Functional Double Conversion LCD On-Line UPS

Tower and 19" Rack-Mount Model

VGD-700, VGD-700-RM:	700VA
VGD-1000, VGD-1000-RM:	1kVA
VGD-1500, VGD-1500-RM:	1.5kVA
VGD-2000, VGD-2000-RM:	2kVA
VGD-3000, VGD-3000-RM:	3kVA

Main Features

- True on-line technology provides all power protection
- Pure sine wave output with less than 3% THD
- Fully digitized microprocessor controlled
- LCD display front panel
- Wide input voltage range
- Power factor correction
- Lightning and surge protection
- EMI/RFI noise filter
- Short circuit and overload protection
- Cold start function (DC power on)
- Advanced battery management (ABM)
- Automatic battery charge in UPS off mode
- Battery replacement warning
- Automatic diagnostics and battery check
- Load segmentation receptacles controllable
- Fan speed auto control when load varies
- Extended back up time with battery pack
- Network/fax/modem surge protection
- UPSMON plus software monitoring
- Hot swappable battery by user
- Emergency power off (EPO) function
- High efficiency mode selectable
- Battery remain time display
- Multiple language LCD display
- On line output voltage selected
- RS-232 communication port with UPSMON software
- Support USB communication
- Manual bypass setting
- Free run mode setting
- Optional extension battery pack
- Optional SNMP card slot



Special Features

• 15 UPS status display

Easy viewing of UPS status from LCD panel including

Output Voltage	Output Load (%)	Battery Charge (%)
Output Frequency	Output Watt (W)	Temperature (°C)
Input Voltage	Output VA	Battery Pack Number
Input Frequency	Output Current (A)	Rating (VA)
Battery Voltage	Back Up Time (Min.)	CPU Version

• 14 UPS parameter setting

Output Voltage Set	Manual Bypass	Site Failure Set
Input Frequency Set	Outlet Segment Set	Language Selection
Input Bypass Set	Battery Set	Generator Option Set
Free Run Set	Silence Mode Set	RS-232 Control
High Efficiency Mode	Battery Cabinet Set	

- Load segmentation receptacles controllable
- Emergency power off (EPO) function
- LAN/TEL/Modem surge protection
- SNMP control card (option)
- Extended battery pack (EBP, option)
- USB communication port (option)

Powercom UPSMON Suite



The industry's most comprehensive software bundle, the Powercom software suite, is free and included with every Powercom Vanguard UPS.

UPSMON plus wizard guides you through software selection and installation.

UPSMON plus features the following power management software:

- Automatic shutdown
- User notification of power events
- UPS power events log
- Automatic reboot
- Broadcast power abnormal status
- Smart save file
- Scheduled system shutdown /reboot
- UPS battery low warning
- Real-time graphical display
- Battery level display
- Power quality data log
- Printing power events list
- Graphic display by meter
- Support Windows NT service and start UPS monitoring software before user log in under Windows 95/98/ME/NT/2000/XP
- Compatible with Windows 95/98/NT/2000/XP/2003 Server, Novell and Linux etc.

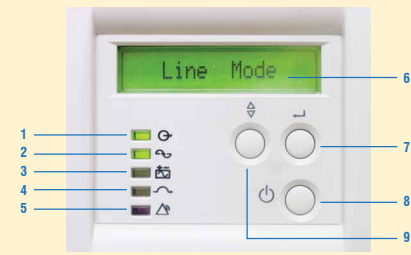


Complete Power Solution™

Front Panel Display

Informative user interface with LCD, five LED and audible alarms.

- | | |
|------------------|--------------------------------|
| 1 UPS On | 6 LCD display |
| 2 On-Line mode | 7 Select UPS setting |
| 3 Battery mode | 8 Start Up/Shutdown UPS |
| 4 On Bypass mode | 9 Select UPS setting parameter |
| 5 Alarm | |



Tower Model

Power rating 700VA, 1kVA, 1.5kVA, 2kVA and 3kVA



VGD-700, 1000 and 1500
VGD-2000 and 3000

19" Rack-Mount Model

Power rating 700VA-1kVA, 1U model
Power rating 700VA-3kVA, 2U model



VGD-700-RM to VGD-1000-RM (front, 1U)



VGD-700-RM to VGD-3000-RM (front, 2U)

Vanguard Specifications

Tower Model		VGD-700	VGD-1000	VGD-1500	VGD-2000	VGD-3000
19" Rack-Mount Model		VGD-700-RM	VGD-1000-RM	VGD-1500-RM	VGD-2000-RM	VGD-3000-RM
Power Rating		700VA	1000VA	1500VA	2000VA	3000VA
Input	Power Factor Correction	> 0.99				
	Voltage	220Vac ±27%				
	Frequency	50Hz ±10%				
Output	Voltage	208, 220, 230 and 240Vac ± 1% (selectable output voltage)				
	Frequency	50Hz ±0.1%				
	Transfer Time	0 ms				
	Overload recovery	Auto transfer to UPS				
	High Efficiency Mode (AC to AC)	> 95%				
	UPS Design Technology	True on-line double conversion, full digitized microprocessor controlled				
	Output Wave Form	Sine wave				
	Harmonic Distortion	< 3% of THD at linear load				
Protection and Filtering	Surge Protection	220V (IEEE6100-4-5 level 3)				
	Overload Protection	150% for 30 seconds				
	Short Circuit Protection	UPS output cut off immediately or input fuse/circuit breaker protection				
System Display and Warning	Visual Display (LED)	UPS on (green), line-mode (green), battery mode (yellow), bypass (yellow) and fault (red)				
	Visual Display (LCD)	Input/output voltage, input/output frequency, on-line mode, back up mode, battery capacity and load level				
	Audible Alarm (battery back up)	Beep every 5 sec				
	UPS Fault	Continuous beeping sound and LCD display				
Battery	Communication	RS-232 serial port (option for USB port)				
	Type	Sealed, maintenance-free lead acid batteries				
	Typical Recharge Time to 90% Full	4 hours				
	Management	Self-test, adjustable battery transfer points and alarm setting				
	Battery Protection	Cut off without draining any current when battery is low				
	Cold Start (DC start)	Yes				
Physical	Back Up Time	15 minutes				
	Expansion Back Up Time	Optional				
	Tower Model Dimensions W × D × H, mm (inch)	152 × 420 × 237 (6.0" × 16.5" × 9.3")			225 × 420 × 360 (8.9" × 16.5" × 14.2")	
	19" Rack-Mount Model Dimensions W × D × H, mm (inch)	428 × 525 × 44 (16.9" × 20.7" × 1.7") for 1U			None	
	428 × 425 × 84 (16.9" × 16.7" × 3.3") for 2U			428 × 635 × 84 (16.9" × 25" × 3.3") for 2U		
Tower Model Net Weight, kg (lb)	13.9 (30.6)	17.1 (37.6)	17.7 (38.9)	33.8 (74.4)	35.6 (78.3)	
Tower Model Shipping Weight, kg (lb)	15.6 (34.3)	18.9 (41.6)	19.5 (42.9)	36.0 (79.2)	38.0 (83.6)	
Environment	Operating Temperature	0~45°C (32~104 °F)				
	Storage Temperature	-20~50 °C (-4~122 °F)				
	Altitude	3,500 meters max				
	Audible Noise (1 meter from surface)	<40 dBA				
Conformance	Relative Humidity	0~95% humidity, non-condensing				
	Safety	EN 50091-1-1/EN 6095, IEC 60950				
	Electromagnetic Compatibility	EN 50091-2, EN 55022/B, IEC 62040-2, IEC 61000-3-2, IEC 61000-4-2/3/4/5				

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OUTPUT RECEPTACLE OPTION



Powermatic Co., Ltd. Tel: 0-2952-4400 Fax: 0-2952-3899 e-mail: sales@powermatic.co.th www.powermatic.co.th



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