

VPM

1kVA~3kVA

Double conversion on-line system

True on-line double conversion design
Fully digitized microprocessor control
Input power factor correction (PFC)
Pure sinewave output with less than 3% THD
On-line output voltage selection
Auto self-testing system while turning on the UPS
Cold Start function (DC Power On)
Lightning and surge protection
Network/Tel/Fax/Modem surge suppression
Advanced Battery Management (ABM Technology)
Automatic diagnostics & battery check
Power status LCD display
Smart RS-232, USB, SNMP and AS-400 card
Software monitoring and control
Scheduled shutdown & reboot



PCE[®]
UPS SYSTEMS

**YOUR ULTIMATE
POWER PROTECTION PARTNER**

Product Introduction

Today **VPM** is designed to provide continuous utility AC power protection for critical system installation.

With its double conversion on-line technology, it delivers the optimum level of reliability, purity and power. This ensures a pure sinewave output free of any input voltage fluctuations and disturbances. Via this technology, the **VPM** series is particularly suitable for use in areas where power supply is consistently in shortage.

It absolutely prevents power failures, power surges, brownouts, line noise, high voltage spikes, frequency variations, harmonic distortion and switching transients ensuring no transfer time in the event of a power failure.

Microprocessor Control

The **VPM** is a true double conversion & pure sinewave output on-line design. With microprocessor control, it gives the high operating reliability for the most mission-critical applications.

Apart from reduced size, the microprocessor also lowers the defective rate of UPS.

Auto Self-Testing System

When turning on the **VPM** UPS system, it immediately performs an inspection of the components and detects any problems in time to avoid causing any damage to the system.

User Selectable Output Voltage

The **VPM** Series enables users to select corresponding output voltage to the local mains power without changing hardware.

Communication Ports

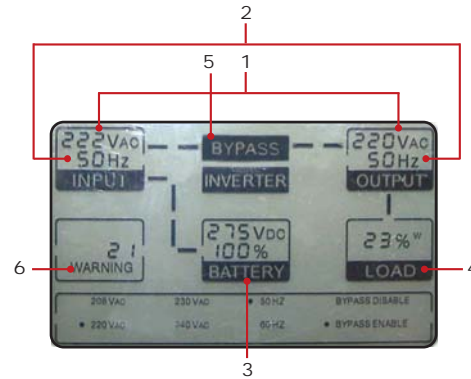
The **VPM** Series is equipped with multiple communication ports increasing the flexibility, functionality & reliability. It offers three different communication ports for user selection RS-232, USB card, SNMP card and AS-400 card. Through either one of them, the user can control and monitor UPS status easily.

Power Management Software

The PCE PowerTrack™ Software Suite comes included with every PCE **VPM** UPS. It can perform critical power management functions such as battery control of the **VPM** UPS system, monitoring and managing UPS working status easily and in real time.

LCD display design

The **VPM** LCD display provides user-friendly menu control and delivers messages to the ability to manage, configure, control and diagnose the UPS directly.



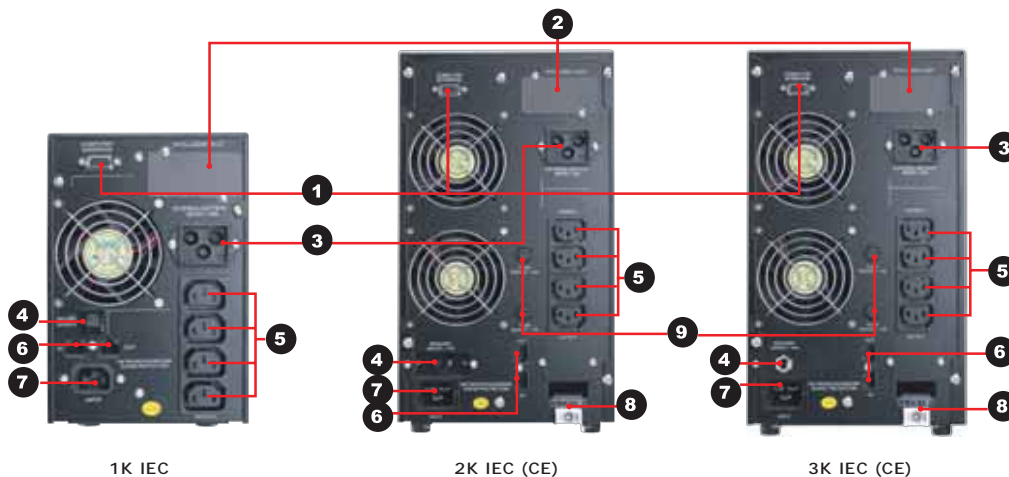
1. Input/Output voltage
2. Input/Output frequency
3. Battery level
4. Load level
5. Mode status (Back up mode, On-line mode, **Bypass mode**)
6. Fault codes/Warning

Applications

The **VPM** series provides a secure power infrastructure for a wide range of applications from stand-alone home PCs to office workstations, servers, network equipments and communication systems.

Back panel for all models

1. Communication Port
2. Intelligent Slot
3. External Battery Socket
4. Breaker
5. Output Socket
6. Network/Fax/Modem Surge Protection
7. Input Socket
8. Output Terminal Block
9. Fuse



Model		VPM 1k	VPM 2k	VPM 3k
Power Rating	P.F=0.7	1kVA/700W	2kVA/1400W	3kVA/2100W
Input	Voltage	220V/ 230V/240V, 1Ø 2Wires		
	Frequency	50/60 Hz +/-10%		
	Voltage range	120V-286V		
	Power Factor	≥98%		
	THDi	<5%		
Output	Voltage (on battery)	220V/ 230V/ 240V, +/-1% (selectable output voltage), 1Ø 2Wires		
	Frequency (on battery)	50/60 Hz +/-0.1%		
	Transfer Time	0 ms		
	Efficiency	≥94% (line mode), ≥91% (battery mode)		
	UPS Design Technology	On-Line / Fully digitized microprocessor controlled		
	Output Wave Form	Pure Sinewave		
	Total Harmonic distortion (THD)	< 3% of T.H.D. at linear load , < 5% T.H.D. at non linear load		
	Crest Factor	3:1		
Protection	Overload Protection	125% for 10 minutes and 150% for 1 minute		
	Short Circuit Protection	UPS output cut off immediately using input fuse/circuit breaker protection		
System display/warning	LCD indicators	Input/output voltage, input/output frequency, on-line mode, back up mode, battery capacity, load level		
	Audible Alarm	Beep every 4 second (Battery back up)		
	Overload Alarm	Beep twice every second		
Battery	Battery Type	Sealed, maintenance-free lead acid batteries, 3-5 years typical life time		
	Typical Recharge Time	5 hours to 90% Full		
	DC Voltage	36VDC	96VDC	
	Management	Self-test, adjustable battery transfer points and alarm settings		
	Cold Start	YES		
	Battery Protection	Cuts off without draining any current when battery is low		
	Back Up Time	5 min	9 min	5 min
Communication	AS-400*, USB*, RS-232	Interface with power management software		
	SNMP*	Power Management from SNMP manager and web browser		
	Compatibility	Windows 98/NT/2000/XP/2003, Linux, Sun Solaris, IBM Aix, Compaq True64, SGI IRIX, FreeBSD, HP-U X and MAC/ME		
Physical	W x D x H	145 x 400 x 220 mm	192 x 460 x 340 mm	
	Net Weight	14Kg(30.8lb)	34.5Kg(75.9lb)	35.5Kg(78.1lb)
Environment	Operating Temperature	0°C - 40°C		
	Storage Temperature	-20°C~ 50°C		
	Altitude	3,500 meters max		
	Audible noise	<42dBA at 1 Meter	<45dBA at 1 Meter	
	Relative Humidity	20 - 90% humidity, non-condensing		
Standards & Certifications	Performance	EN50091-3/IEC 62040-3		
	Safety	UL 1778, CE, EN 50091-1, EN 60950 (RD/), IEC 60950		
	EMC (EMS / EMI)	IEC 61000-4-2/-3/-4/-5/-6/-8/-11, IEC 61000-3-2/-3, FCC Part 15, CISPR 22, EN 50091-2/IEC62040-2 EN 55022/B, FCC 47 part 15 - Subpart B - Class A		
	Design, production, and services	ISO 9001		
	Environment	ISO 14001 certified company		
	Marking & Certifications	CE, TUV/GS, UL, cUL, c-Tick		

* For optional features

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