

VPML RM

1kVA~6kVA

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
- Extended back up time by adding external battery packs
- Power status LED 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 **VPML RM** 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 **VPML RM** 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 **VPML RM** 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.

By means of innovative software and control programs, the complicated hardware circuitry is inlaid in the powerful microprocessor, apart from reduced size, the microprocessor also lowers the defective rate of UPS.

Auto Self-Testing System

When turning on the **VPML RM** UPS system, it immediately performs an inspection of the components such as the inverter, the battery, and the load. The system will also detect any problems in time to avoid causing any damage to the system.

User Selectable Output Voltage

The **VPML RM** Series enables users to select corresponding output voltage to the local mains power without changing hardware. Users can select output voltage by just pushing a button.

Extended Back up Time

Long Back up Models are allowed to connect external batteries to get prolonged back up time. This feature is particularly suitable for the areas where power supply is consistently in shortage. This system assures high quality power supply for computer loads and optimized battery life.

Communication Ports

The **VPML RM** 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.

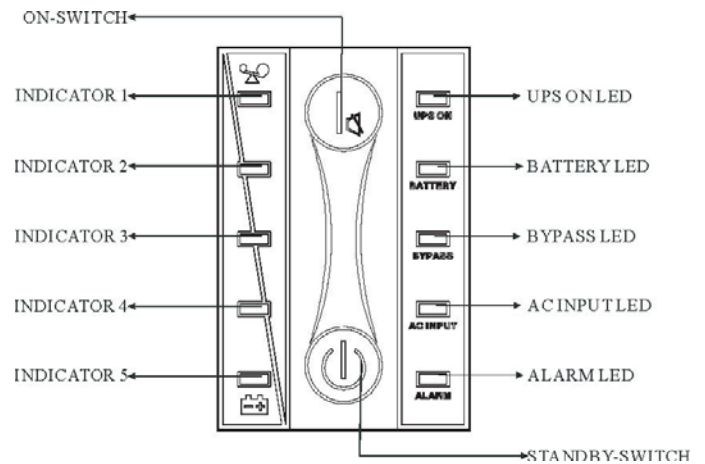
Power Management Software

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

PCE PowerTrack™ software runs with several operating systems such as windows 98/NT/2000/XP/2003, Linux, Sun Solaris, MAC/ME.

LED display design

The **VPML RM** LED display provides user-friendly menu control indicating the status conditions of the **VPML RM** UPS and sending alarms whenever there are faults or operating problems occurring in the UPS system.



Applications

The **VPML RM** 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.

Model VPML RM		VPML RM 1k	VPML RM 2k	VPML RM3K	VPML RM 6K
Power Rating	P.F=0.7	1kVA/700W	2kVA/1400W	3kVA/2100W	6kVA/4200W
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%			
	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	LED indicators	On-line mode, bypass mode, back up mode, battery capacity, load level, fault			
	Audible Alarm	Beep every 4 second (Battery back up)			
	Overload Alarm	Beep twice every second			
Battery	Battery Type	VRLA,WET			
	Typical Recharge Time	Depending on external batteries			
	DC Voltage	36VDC	96VDC	240VDC	
	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	Back up time depending on battery pack installed			
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 (mm)				
	-UPS Case	450X 482.6 X 87 (2U)	450X 482.6 X 87 (2U)	482.6 X 600 X 132 (3U)	
	-Battery Pack	450X 482.6 X 87 (2U)	450X 482.6 X 87 (2U)	482.6 X 600 X 132 (3U)	
	Net Weight	8.2Kg(18.04lb)	10.5Kg(23.11lb)	10.9Kg(23.98lb)	18.3Kg(40.26lb)
	Shipping Weight	16.3Kg(35.86lb)	11.5Kg(25.3lb)	12.3Kg(27.06lb)	19.1Kg(42.02lb)
	Battery Pack Weight	21Kg(46.2lb)	26Kg(57.2lb)		64.2Kg(141.24lb)
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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