ACT GREEN

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VX

1KVA~10KVA

- True online double conversion design
- Fully digitized microprocessor control
- Digital Signal Processor technology (DSP)
- Input Power Factor Correction (PFC)
- High output power factor 0.8
- Pure sinewave output with less than 3% THD
- Wide input voltage range
- on-line output voltage selection
- Auto self-testing system while turning on the UPS
- Eco mode for energy saving
- Frequency converter mode
- Cold start function (DC power on)
- Built in Automatic bypass
- Manual bypass setting*
- Network/Tel/Modem/Fax spike protection
- Remote Emergency Power Off function (EPO)
- Advanced Battery Management (ABM Technology)
- Automatic diagnostics and battery check
- Smart battery charging design for optimized performance
- Adjustable battery number*
- Adjustable charging current via LCD or software*
- Multi-function LCD display
- USB, RS-232, Optional SNMP slot communication port
- Software monitoring and control

* Select models only

YOUR ULTIMATE

POWER PROTECTION PARTNER

PCE UPS SYSTEMS

Product Introduction

As businesses increase their dependence on technology in every aspect of their operations, the need for system availability becomes of paramount importance. The PCE VX Series UPS is designed for those applications that require maximum protection and availability. With its high output power factor, double-conversion online technology, the VX UPS provides non-stop clean power for a wide range of applications along with features that add to its flexibility such as double conversion online design, advanced communications, and remote control.

The VX UPS comes in a broad range of output power capacities (1kVA to 10kVA) that accommodate any requirement an enterprise might need.

With the VX UPS, PCE delivers a best-in-class power solution that provides maximum protection, availability, and peace of mind.

Applications

Data Centers, Network Infrastructures, Production Servers, and Industrial Equipment.

Problems

The VX UPS protects your equipment against the following problems:
Power failures, Power sags, Power surges, Under-voltage, Over-voltage, Electrical line noise, Frequency Variation, Switching transient, Harmonic distortion.
Even when presented with the most severe cases of such power problems, the VX UPS output remains within a remarkable +/-1% of nominal voltage. This means that your loads always receive steady and clean power regardless of the input condition. In addition, the VX UPS transfers to back up mode with no break in power, making it the perfect UPS for running sensitive equipment in a poor power environment.

Features

High Performance and Reliability

• On-line Double-Conversion Technology
This technology guarantees consistent high power quality. Whatever the disturbances on the distribution system are, a pure sinewave is regenerated via AC to DC to AC double-conversion process. The battery supplies the load with power at all times so that no switching time is noticed at the output when the input power goes off.

• DSP technology applied for 6K and up models
A DSP controller provides an improved and cost-effective solution with high performance.

• Wide Input Voltage Range
The VX UPS has a very wide input-voltage tolerance (from 110V to 300V) which allows the UPS to provide a constant output voltage while keeping the batteries on the charger. This way, the batteries are not used as heavily, which maximizes the availability backup time and extends the battery life.

• Output power factor 0.8
VX UPS is a high-density UPS with output power factor 0.8 to provide higher performance and efficiency to critical applications.

• Active input power factor correction 0.99 for 6K and up models
This feature will save more energy and its power factor performance is more stable to meet higher environment standards.

High Availability

• Cold Start on battery power
This function ensures trouble-free start-up of your equipment even during a utility power outage.
• Automatic Bypass
In the event of an overload or a UPS fault, the VX UPS automatically transfers the load to utility AC power.

Operating Modes

• 50/60 Hz frequency converter mode
Lock output frequency at 50Hz or 60Hz to suit power sensitive equipments.
• ECO for energy saving
It allows UPS to operate in high efficiency up to 97% in energy- saving ECO mode. In this operation mode, load is supplied by the mains. In the event of a mains failure, the inverter takes over the load and provides supply continuity to the connected systems.

Software and Communications Options

• USB port (optional) allows UPS to communicate with Windows 98/ME, 2000, XP and 2003 computers.

• RS-232 Port (standard) allows the UPS for interface with power management software.

• SNMP/Web card (optional) adds direct control and monitoring capabilities in SNMP-based networks. It provides the ability to monitor UPS status via a web browser.

• Relay card (optional) adds integration to industrial environment and Building Management Systems, as well as interconnection to IBM AS-400 machines.

Technical Specifications
VX Series

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Model		VX 1K	VX 2K	VX 3K	VX 6K	VX 10K
Output Power with cosφ=0.8		1000VA	2000VA	3000VA	6000VA	10000VA
		800W	1600W	2400W	4800W	8000W
Input	Voltage	220V, 230V, 240V, 1Ø 2Wires				
	Frequency	40~70Hz				
	Voltage range	110V~300VAC				
	Power Factor	>99%				
	THDi	<5%				
Output	Voltage (on battery)	220V, 230V, 240V, +/-1% (selectable output voltage), 1Ø 2Wires				
	Frequency (on battery)	50/60 Hz +/-0.2%				
	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 or 110% for 10min, 110~130% for 1 min,>130% for 1 sec				
	Short Circuit Protection	UPS output cut off immediately using input fuse/circuit breaker protection				
System Display	LCD indicators	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators				
Alarm	Battery mode	Beep every 4 second				
	Low battery	Beep every second				
	Overload	Beep twice every second				
	Fault	Continuously beeping				
Battery	Battery Type	Sealed, maintenance-free lead acid batteries, 3-5 years typical life time				
	Typical Recharge Time	4 hours to 90% Full capacity			9 hours to 90% Full capacity	
	DC Voltage	24VDC	48VDC	72VDC	192VDC	240VDC
	Charging Current	1A			1A/2A	
	Back up time(1/2 Load)	18 min			22 min	18 min
Communication	USB or RS-232	Interface with power management software				
	SNMP*	Power Management from SNMP manager and web browser				
	Compatibiltiy	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	145x282x220mm	145x397x220mm	190x421x318mm	190x369x688mm	190x442x688mm
	Net Weight kgs(lbs)	9.8Kg(21.6lb)	17Kg(37.4lbs)	27.6Kg(60.7lbs)	60kg(132lbs)	75kg(165lbs)
Environment	Operating Temperature	0 - 40°C / 32 ~ 104°F				
	Storage Temperature	-20 ~ 50°C / -4 ~ 122°F				
	Altitude	1,500 meters max				
	Audible noise	<50dBA at 1 Meter			<55dBA at 1 Meter	
	Relative Humidity	0 ~ 95% 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 Class A EN 55022/B,FCC 47 part 15 - Subpart B -				
	Design, production & services	ISO 9001				
	Environment	ISO 14001 certified company				
	Marking & Certifications	CE, TUV/GS, UL, cUL, c-Tick				

* For optional features
***Product specifications are subject to change without further notice

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