

PCEE[®]

UPS SYSTEMS

YOUR ULTIMATE
POWER PROTECTION PARTNER

www.pceups.com



Description



VX 1kVA-10kVA

True online double conversion design	✓	Output power factor 0.8	✓
Active input Power Factor Correction (PFC 0.99)	✓	Pure sine wave output with less than 5% THD	✓
Fully digitized microprocessor control	✓	50/60 Hz frequency converter mode	✓
Wide input voltage range	✓	Built in Automatic bypass	✓
Emergency power off function (EPO)	✓	Programmable power management outlets	✓
Cold start function (DC power on)	✓	Advanced battery management (ABM technology)	✓
On-line output voltage selection	✓	Generator compatible	✓
Multi-function LCD display	✓	Software monitoring and control	✓
Eco mode for energy saving	✓	SNMP/USB/RS-232/AS-400 communications	✓

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 $\pm 1\%$ 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 sine wave 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 all Windows family, Linux, Unix, and Mac.

- 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.

Model	Model	VX 1K	VX 2K	VX 3K	VX 6K	VX 10K
	Rating	1000VA	2000VA	3000VA	6000VA	10000VA
	Output Power	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 Sine wave				
	Total Harmonic distortion (THD)	< 3% of THD at linear load , < 5% THD at non linear load				
	Crest Factor	3:1				
Protection	Overload Protection	110% for 10 minutes & 130% for 1 minute > 130% for 3 sec			110% for 30 min &130% for 5 min > 130% for 3 sec	
	Short Circuit Protection	UPS output cut off immediately using input fuse/circuit breaker protection				
	LCD indicators	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators				
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 (VDC)	24	48	72	192	
	Charging Current (A)	1			1 / 2	
	Back up time (1/2 Load)	18 min			22 min	18 min
Audible Alarm	Battery mode	Beep every 4 second				
	Low battery	Beep every second				
	Overload	Beep twice every second				
	Fault	Continuously beeping				
Communication	USB or RS-232	Interface with power management software				
	SNMP, AS400 ¹	Power Management from SNMP manager and web browser				
	Compatibiltiy	Supports Windows family, Linux, Unix, and Mac				
Physical	W x D x H (mm)	145 x 282 x 220	145 x 397 x 220	190 x 421 x 318	190 x 369 x 688	190 x 442 x 688
	Net Weight (kgs)	9.8	17	27.6	61	66
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				

1 * For optional features

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