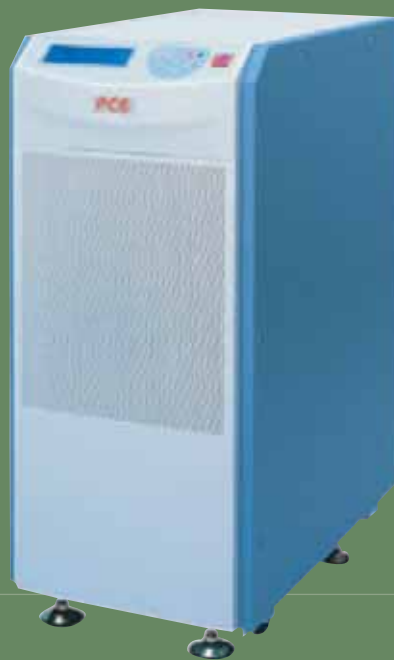


HP UPS 15kVA-30kVA

- True on-line double conversion design
- Fully digitized microprocessor control
- Hot-standby capability
- Redundant auxiliary power
- Input Power Factor Correction (PFC)
- Pure sinewave output with less than 3% THD
- Wide input voltage range
- On-line output voltage selectable
- High Efficiency mode selectable
- Cold start function (DC power on)
- Galvanic isolation transformer *
- Generator compatible
- Manual and static bypass switch
- Remote Emergency Power Off function (EPO)
- Advanced Battery Management (ABM)
- Automatic diagnostics & battery check
- Display of battery remaining time
- Battery replacement warning
- Multi-function LCD interface
- History record of power failure events
- RS-232, AS-400, dry contact communication port
- SNMP management capability*
- Software monitoring & control

** For optional features*



**YOUR ULTIMATE POWER
PROTECTION PARTNER**

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PCE[®]
UPS SYSTEMS

HP Series Introduction

The HP UPS is now available from 15kVA to 30kVA in both single and three-phase output versions and is compatible with a wide range of battery autonomies. This means that the HP Series is ideal for all company sizes and requirements.

The true on-line intelligent double conversion design of the HP UPS enables it to act as a secure power infrastructure that guarantees the delivery of the highest power quality to your loads. The HP UPS provides a multitude of features allowing it to meet the diverse requirements that an organization might have: it provides high tolerance to input voltage and frequency fluctuations while supplying a pure sinewave output with less than 3% of Total Harmonic Distortion (THD).

The HP UPS is designed with high-availability in mind. For this reason, it comes packed with features that allow it to keep operating under a variety of possible power disruptions.

Functions and Features

The HP Series UPS boasts a true on-line design providing power to your sensitive electronic equipment without any interruption whatsoever. In addition, the HP Series UPS is fully adaptable to meet any specific need for power, battery back up time and redundancy.

The HP Series UPS can be fully integrated with PCE's static switch assembly. This setup provides additional protection against possible problems in the power distribution system by immediately switching to AC mains in the unlikely event of a fault within the UPS system itself.

Further features include:

- Galvanic isolation transformer
- Automatic input frequency detection enables operation at 50Hz or 60Hz
- A wide acceptable input voltage range reduces the frequency of battery discharges
- A power factor corrected input and a high frequency pulse width modulated inverter which give the UPS excellent performance characteristics in a compact design
- A Battery Start switch which allows UPS to power up and provide stable AC current without having mains power available

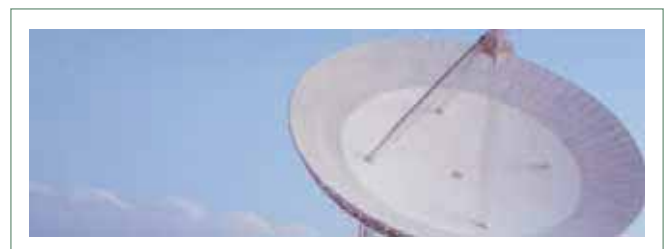
- A battery charger which guarantees the reliability of the battery over time and offers back up extension for numerous hours
- The ability to connect one or more external cabinets whenever extended back up times are required
- RS-232, AS-400, and status interface, included as standard features to allow for communication with all types of computers
- An optional SNMP interface card that can be used for network-based communication, monitoring, and control
- A state-of-the-art microprocessor technology featuring self-diagnosis and a multilingual LCD message display to provide operation and status information
- A Static Bypass supply incorporates surge suppression and an EMI filter
- Automatic restart, which functions as follows:
 1. After a low-battery shutdown event, the UPS automatically starts in inverter mode when the AC line returns
 2. After clearing an overload condition, the UPS automatically switches from static bypass to inverter mode
- An "alarm cancel" functionality which allows for switching off the audible alarm and indicative lights in the event of a long back up time
- An optional "Economy Mode": When the input voltage is within the rating voltage range ($\pm 10\%$), the UPS works in the bypass mode for more efficiency. In other cases, the UPS switches to inverter mode
- Auto-detection of the bypass mode voltage: The protection range is typically $-30\% \sim +30\%$ (different ranges are selectable). When the bypass voltage is beyond protection range, the UPS will supply no output power to the load.

Leading Technology

The PCE HP Series UPS uses an intelligent double conversion technology to provide secure power architecture for your mission-critical applications. This feature ensures the highest levels of voltage and frequency regulations and is the only practical alternative in environments where the quality in the incoming electricity is low.

Your HP Series UPS will help your organization by:

- Providing high tolerance to voltage and frequency fluctuations
- Providing low network emissions and ensuring no disruption to your systems and processes



- Providing advanced battery care to ensure superior performance and extend the life of your UPS batteries
- Absorbing active power and resulting in significant savings (for PFC units).

Reliability

The HP Series UPS ensures that the energy supplied to your load is of the highest quality, enabling it to function in a truly redundant hot-standby solution. Hot-standby allows an additional HP unit to act as back up in order to provide 100% redundancy in the unlikely event of a unit failure.

Communication & Monitoring

The HP Series UPS is fitted with RS-232 & AS-400 computer interface. A Liquid Crystal Display (LCD) provides clear multilingual information on various operating parameters.

The HP Series is fully compatible with PCE's suite of connectivity solutions, allowing you to preserve critical data and perform a controlled shutdown of equipment in the event of a power disturbance.

The HP Series family is fully compatible with PowerTrack.net™ software platform. PowerTrack.net™ is the nearest you can get to having a PCE engineer permanently located at your site. The PowerTrack.net™ platform provides the following:

- Continuous real-time monitoring of your UPS
- Automatic transmission of daily status reports
- Real-time diagnosis of all the UPSs' operational parameters
- Remote-fix capability
- Monthly UPS operational status reports
- Technical advice regarding the operation of your UPS
- Easy access to all the data collected from the UPS system
- Power Quality Monitoring to effectively monitor power disturbance trends.

Applications

The HP Series provides a secure and reliable power infrastructure for a wide range of applications including:

- Commercial Processing System
- Storage Area Networks (SAN)
- Control Systems
- Industrial Automation
- Broadcasting and Telecommunications System
- Data Centers

Advanced Battery Care

The HP Series UPS employs unique technologies to increase the life of the batteries

Here at PCE UPS SYSTEMS Inc., we never tire of emphasizing the importance of the batteries. Battery reliability and replacement costs are among the most important factors to be considered when choosing a UPS. For this reason, we have always paid the utmost attention to the batteries we employ in our solutions. In addition, we have equipped the HP Series with the capability to continuously monitor your power status and operate with extreme efficiency accordingly. Such mechanisms increase the system's battery life by up to 60%.

The following are some of the battery-life saving features:

- Wide input voltage acceptance range (up to 30%)
- Temperature-compensated battery charger
- Intelligent battery charger
- Charge and discharge cycle control
- End of discharge voltage compensated with time
- Minimum ripple current values
- Algorithm to calculate battery life expectancy
- Periodic battery testing

All these features put together sum up to considerable savings in your running costs.

Secure Power at All Times

Supplying you with a UPS alone will never deliver the level of business protection and continuity that you require. For this reason, PCE UPS SYSTEMS offers you a range of maintenance plans which would:

- Help deliver reliability to your load
- Extend the life of your power protection equipment
- Optimize your capital expenditure
- Provide a proactive approach to disaster recovery
- Help to control your business environment
- Provide efficient risk management at a fixed cost

Please contact your local PCE sales office or visit our website at www.pceups.com for more information.



TECHNICAL SPECIFICATIONS - HP Series

Model		HP 15K31	HP 15K33	HP 20K31	HP 20K33	HP 30K31	HP 30K33
Power Rating	P.F=0.8	15kVA/12000W		20kVA/16000W		30kVA/24000W	
Input	Voltage	380V/400V/415V±30% (selectable), 3Φ4 wires					
	Frequency	50/60Hz +/-10%					
	Voltage range	267V ~ 495V					
	Efficiency of rectifier	≥ 98%					
	THDi	<4%					
Output	Voltage (on battery)	220V/230V/240V +/-1% (selectable), 1Φ2 wires (31 model) 380V, 400V, 415V +/-1% (selectable), 3Φ4 wires (33 model)					
	Frequency (on battery)	50/60Hz +/-0.1%					
	Transfer Time	0 ms					
	Overload Recovery	Auto transfer to UPS					
	Efficiency - Normal Mode	>95%					
	- Economy Mode						
	UPS Design Technology	On-line / Fully digitized microprocessor controlled					
	Output Wave Form	Pure Sinewave					
	Harmonic Distortion	<3% THD at linear load					
	Crest Factor	3:1					
Protection & Filtering	Overload Protection	≤104% continuous, ≤125% for 10 minutes, ≤150% for 60 seconds, >150% for 5 seconds					
	Short Circuit Protection	UPS output cut off immediately /fuse/circuit breaker/electronic protection					
System Display Warning	LCD indicators	Input/output voltage, input/output freq., on-line mode, back up mode, batt. capacity, load level, inside temperature, fault status					
	LED Indicators	Rectifier I/P, bypass I/P, inverter, O/P, on-line mode, back up mode, bypass mode					
Battery	Battery Type	VRLA, WET, NiCad					
	DC Voltage	240VDC					
	Typical Recharge Time	4 hours (to 90% Full)					
	Management	Self-test, adjustable battery transfer points and alarm settings					
	Battery Protection	125A / 400V FUSE					
	Cold Start (DC start)	YES					
	Back up time	Depends on batteries installed					
Communication	AS-400, RS-232	Interface with power management software					
	SNMP Card (optional)	Monitoring capabilities in SNMP-based networks					
	Compatiblity	SNMP, Windows95/98/NT/2000/2003					
Physical	W×D×H	398 x 650 x 860 mm					
	Net Weight kg (lb)	108kg (238lb)					
	-UPS without transformer	210kg (465lb)		220kg (485lb)		240kg (529lb)	
	-UPS with transformer	210kg (465lb)		220kg (485lb)		240kg (529lb)	
Battery cabinet (optional)	270kg (595lb) (12V/26Ah*20)		370kg (816lb) (12V/40Ah*20)				
Environment	Operating temperature	0°C~40°C					
	Storage Temperature	-20°C~50°C					
	Altitude	2,000 meters					
	Audible Noise	< 45dBA at 1 Meter					
	Relative Humidity	5~95% humidity, non-condensing					
Standards & Certifications	Performance	EN 50091-3 / 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/IEC 62040/2, EN 55022/B, FCC 47 Part 15 - SubpartB - ClassA					
	Design,production,services	ISO 9001					
	Environment Marking & Certifications	ISO 14001 certified company CE, TUV/GS, UL, cUL, C-Tick					

Note: Depending on transformer type, the output voltage can be set to 110V/115V/120V ~ 1Φ2W; 220V/230V/240V ~ 1Φ2W; 110-220V/115-230V/120-240V ~ 1Φ3W (for three-phase input and single phase output). The voltage can also be set to 380V/400V/415V ~ 3Φ4W or 190V/208V/220V ~ 3Φ4W (For three-phase input and three-phase output).

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