



Smart-UPS® VT – Legendary Reliability and Performance for a wide range of IT Environments

Smart-UPS® VT provides performance power protection with scalable runtime for small data centers in the 10-40 kVA power range

Smart-UPS® VT offers centralized three-phase power protection with the reliability of the award winning Smart-UPS® family. Ideal for small data centers, large retail stores, regional offices, and laboratory equipment, the Smart-UPS® VT features dual-mains input, automatic bypass, and scalable runtime with hot-swappable batteries for increased availability. Low cost of ownership is achieved through best-in-class* efficiency and a reduction in rating of electrical infrastructure - wires, transformers, and generators. APC's Network Management Card with temperature monitoring provides remote monitoring and management through Web/SNMP. Serviceability is greatly enhanced with its user-replaceable batteries and manageable extended run enclosures. The Smart-UPS® VT is the easiest UPS in its class to deploy, manage and maintain.

*tested by TÜV

Typical applications

- Small data centers
- Telecommunications and internet hubs
- Networking and communications equipment
- Branch back offices
- Point of Sale retail applications
- Diagnostic laboratory equipment

Features & Benefits:

ECONOMY

- Input power factor correction
- Frequency and voltage regulation
- Temperature-compensated battery charging
- Manual maintenance bypass

SERVICEABILITY

- User replaceable batteries
- Automatic self-test
- Battery replacement without tools

AVAILABILITY

- Hot-swappable batteries
- Scalable runtime
- Dual mains input
- Automatic internal bypass
- Generator compatible

MANAGEABILITY

- Network manageable
- LCD display
- Audible alarms
- Programmable frequency

LINE-UP-AND-MATCH OPTIONS

- Battery enclosure
- Maintenance Bypass Panel



APC
 Legendary Reliability®

FACTORY CONTROLS

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Smart-UPS® VT Product Family Features

Smart-UPS® VT	SUVT10KH1B2S/SUVT10KH4B4S	SUVT15KH2B2S/SUVT15KH4B4S	SUVT20KH2B2S/SUVT20KH4B4S	SUVT30KH3B4S	SUVT40KH4B4S
Mains Input					
Nominal Input Voltage	380/400/415V				
Nominal Input Current (400V)	12.4A	18.6A	24.8A	37.2A	49.6A
General Input Specifications					
Input Wiring	L1, L2, L3, N, PE				
Input Frequency Tolerance	40-70Hz				
Input Power Factor	>0.98 at load>50%				
I THD	<5% at full load				
Max. Short-Circuit Withstand Level (ICW)	30 kA				
Input Voltage Tolerance Utility Operation	304V to 477V at full load, 200V to 477V at half load				
Dual Mains Input	Yes				
Input Voltage Tolerance Bypass	±10% standard ±4, 6, 8, 10% (programmable)				
Backfeed Protection	Built-in backfeed contactor				
Output					
Power Rating	10kVA/8kW	15kVA/12kW	20kVA/16kW	30kVA/24kW	40kVA/32kW
Nominal Output Voltage	380/400/415V				
Nominal Output Current (400V)	14.4A	21.7A	28.9A	43.3A	57.7A
General Output Specifications					
Efficiency in Battery Operation	94.7%	94.7%	94.7%*	94.5%	94.8%*
Efficiency at Full Load (AC-AC)	95.7%	95.7%	95.3%*	96.4%	96.0%*
Efficiency at 50% Load (AC-AC)	94.1%	95.7%	95.7%*	96.4%	96.5%*
Output Wiring	L1, L2, L3, N, PE				
Load Power Factor	0.5 leading to 0.5 lagging				
Output Frequency	Mains synchronized in normal operation 50/60Hz ± 0.05% free-running				
Overload Capacity Utility Operation	125% for 1 minute, 150% for 30 seconds				
Overload Capacity Battery Operation	150% for 30 seconds				
V THD	<2% from 0 to 100% linear load, <5% full non-linear load				
Output Voltage Tolerance	±1% static, ±5% at 100% load step				
Battery System					
Nominal Battery Voltage	Split battery ± 192V referenced to neutral				
End of Discharge Battery Voltage	± 154V				
Max. Battery Current at end of Discharge	27.5A	41.2A	55.0A	82.5A	109.9A
Communication and Management					
Communication Interface	Network Management Card with Environmental Monitor				
Control Panel	PowerView multi-function LCD, status and control console				
Audible Alarm	Yes				
Emergency Power Off (EPO)	Yes				
Physical					
Dimensions (HxWxD) mm	1500x352x/523x854	1500x352/523x854	1500x352/523x854	1500x523x854	1500x523x854
Weights (kg) installed, runtime	306, 6min. / 627, 55min.	402, 10min. / 627, 34min.	402, 6min. / 627, 18min.	562, 6min.	562, 6min.
Minimum Clearance Around UPS mm	Min. rear 100 for ventilation, top 500, front 1000, no side clearance required				
Color	APC Raven Black				
Floor Anchoring	Optional				
Protection					
Surge	IEC61000-4-5, EN50091-2				
Thermal	Yes				
Short Circuit	Yes				
Regulatory					
Safety	IEC/EN62040-1-1 and EN60950				
EMC/EMI/RFI	EN50091-2, IEC 62040-2				
Approvals	CE				
Environmental					
Operating Temperature	0 to 40°C				
Storage Temperature	-15 to 40°C				
Operating Relative Humidity	0 to 95% non-condensing				
Storage Relative Humidity	0 to 95% non-condensing				
Operating Elevation	0 to 1,000 m				
Storage Elevation	0 to 15,000 m				
Max. Audible Noise at 3ft/1m from unit	<56dBA at <70% load, <64dBA at 100% load			<56dBA at <70% load, <67dBA at 100% load	
Protection Class	IP20				

*tested by TÜV

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APC is certified by ISO9001 (Quality standards), and by ISO14001 (Environmental standards).

