

Smart-UPS VT

10/15/20/30/40 kVA – three-phase

Compact, high-performance power protection with scalable runtime



Compact three-phase power protection with excellent efficiency and scalable runtime for small data centers and other business-critical applications

- High efficiency in class (96%)
- Small footprint
- Scalable runtime
- Parallel capable
- Network manageability

Features and benefits

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 dense power requirements, the Smart-UPS VT includes dual-mains input, automatic and maintenance bypasses, and scalable runtime with swappable batteries for increased availability. The rack-mounted version maximizes valuable floor space by incorporating UPS, power distribution, and additional battery capacity in a single rack. Low cost of ownership is achieved through best-in-class efficiency and a reduction in rating of electrical infrastructure – wires, transformers, and generators – due to the Smart-UPS VT Soft Start feature. The APC™ Network Management Card with temperature monitoring provides remote monitoring and management through a simple Web/SNMP interface and allows integration with StruxureWare™. Serviceability is greatly enhanced by user-replaceable batteries, manageable extended run frames, and included start-up and standard on-site warranty services. All these features make the Smart-UPS VT the easiest UPS in its class to deploy, manage, and maintain.

Smart-UPS VT features

High availability

The Smart-UPS VT includes dual-mains inputs, automatic and maintenance bypasses, and scalable runtime with swappable batteries that are quick and easy to replace for increased availability.

Its compatibility with the market-leading remote management applications, coupled with intuitive LCD user interface and LED status indicators, ensures the utmost availability for business-critical applications.

A versatile product

The Smart-UPS VT is available in a wide choice of configurations to best fit each specific installation need.

- 10/15/20/30/40 kVA
- Three different enclosures, from classic wide to rack-mounted versions
- Flexible runtime capacity:
 - with quick-swappable batteries and extended run enclosures
 - with up to four internal battery strings and external extended runtime enclosures
- Compatibility with generators, transformers, etc.

Reduced total cost of ownership

Smart-UPS VT intelligent design leads to a significant reduction of the total cost of ownership and makes it the ideal choice over time.

- Best-in-class efficiency even at low load levels minimizes energy losses and operating costs
- Compact, small footprint for floor space optimization
- Input power factor correction reduces installation costs
- Reduction of electrical infrastructure rating requirements (wires, transformers, generators)



Smart-UPS VT features and options

High performance

- Up to 96% efficiency even at low load levels
- Large input voltage tolerance for compatibility with low-quality power grids
- Low input/output signal distortion
- Parallel capability up to four units for redundant configurations or capacity extension

Comprehensive services offering

The product design allows quick maintenance leading to higher availability for the load.

- On-site audits
- Maintenance contracts
- Battery replacement
- Remote monitoring for maximized uptime

Easy maintenance

The product design allows quick maintenance in case of failure, leading to higher availability for the load.

- Slide-in/out concept for the power module for a quick comeback to normal state
- Quick-swappable batteries for quick and easy replacement

Manageability

The built-in features of the Smart-UPS VT, combined with APC leading management solutions, make it easy to manage and monitor proactively. This significantly improves control over the energy supply and ensures high availability for the loads.

- Remote management of the UPS over network or telephone lines
- Centralized management via StruxureWare

Options

Smart-UPS VT product offering provides a list of options.

- Modbus/J-Bus capability
- Remote management with environmental monitoring
- Dry-contact management
- Service Bypass Panel, floor mounted
- Service Bypass Panel with distribution panel
- Empty frames for batteries and transformers
- One-year repair or replace with factory authorized start-up



Smart-UPS VT offers the ability to parallel up to four UPS units for redundancy



Wall-mounted Parallel Maintenance Bypass

Technical specifications

UPS rating kVA/KW (PF = 0.8)	10/8	15/12	20/16	30/24	40/32
AC power supply input					
Input voltage (V)	400 V (three-phase)				
Frequency (Hz)	47 – 70 Hz (auto-sensing)				
Power factor	< 0.99				
Input current total harmonic distortion	Less than 5% for full load				
Ouput					
Output voltage (V)	400 V (three-phase)				
Frequency (Hz)	47 – 53 Hz (for 50 Hz nominal)				
Power factor	0.8				
Overload	150% one minute, 125% 10 minutes				
Output voltage total harmonic distortion	Less than 3.5% for full load				
Performance					
Efficiency (at full load)	94.9%	95.5%	95.4%	96.1%	95.5%
Operating temperature	0 – 40 °C				
Paralleling	Up to four units for capacity or redundancy				
Dimensions (HxWxD) mm					
Wide tower				1,500x523x854	
Narrow tower (30/40 kVA)	1,500x352x854			N/A	
Enclosure (no integrated batteries)	823x352x854			823x523x854	
Environmental					
Audible noise (dBA)	64 dB (57 dB at 70% load)				
Operating temperature	0 °C to 40 °C (32 °F to 104 °F)				
Operating relative humidity	0 to 95%				
Storage temperature	15 °C to 45 °C				
Storage elevation	0 – 15,000 meters				
Regulatory					
Safety	64 dB (57 dB at 70% load)				
Storage elevation	0 – 15,000 meters				