



VOLTAN

POWERING CONNECTIONS • ENERGIZING SOLUTIONS

Voltan UPS Systems

Built to Connect. Made to Last

VOLTAN delivers scalable UPS solutions tailored for environments ranging from compact workspaces to enterprise-level facilities. The **Micropower Series** suits personal computers and small IT setups, offering lightweight backup and protection against voltage fluctuations and surges. For offices and small data centers, VOLTAN's **single-phase UPS** systems feature true online double conversion technology in rack-mount and tower formats, ensuring clean, continuous power. The **3-Phase UPS** series supports critical loads in data centers, healthcare, and industrial settings with modular scalability and intelligent redundancy. VOLTAN's **Transformer-based UPS** solutions deliver galvanic isolation, robust surge protection, and unmatched reliability, making them ideal for industrial processes, medical systems, and other mission-critical applications. At the top tier, the **Modular UPS** series provides next-gen protection with hot-swappable modules, each with its own inverter and battery, ideal for telecom, industrial, and mission-critical applications.

TECHNICAL SPECIFICATION

Micropower Line Interactive UPS

-  **Technology:** Line Interactive with simulated sinewave output
-  **Control:** Microprocessor-based with intelligent self-diagnostics
-  **AVR:** One boost + one buck for stable voltage
-  **Cold Start:** Operates without AC input
-  **Auto Restart:** Resumes on utility recovery
-  **Recharge Time:** 90% capacity in 4–8 hours
-  **Charging Mode:** Off-mode charging supported
-  **Display Options:** LED or LCD panel
-  **Ports:** Optional USB/RS232 with RJ11/RJ45 surge protection
-  **Generator Compatible**
- Protection & Indicators**
-  **Protection:** Overload, short circuit, overcharge, deep discharge
-  **Alarms:** Low battery, overload, fault conditions
-  **Indicators:** Input/output voltage, load, battery level, system status

Single Phase Rack & Tower UPS Series

-  **Capacity:** 1-10 kVA
-  **Technology:** True Online Double Conversion
-  **Efficiency:** Up to 93.5%
-  **Input Range:** 110-300 V, PF 0.9
-  **Output Voltage:** 208/220/230/240 V (selectable)
-  **Backup Options:** Internal batteries or external packs
-  **Battery Features:** Hot-swappable, cold start
-  **Noise Level:** <50-58 dB at 1 m
-  **Protection:** Overload, short-circuit, overheating, overcharge/discharge
-  **Redundancy:** N+X parallel support (6-10 kVA)
-  **Interfaces:** RS232, USB, EPO, relay, SNMP
-  **Energy Saving:** ECO Mode
-  **Generator Compatible:** Yes
-  **Compliance:** IEC/EN62040, IEC/EN62477, EMC standard

Modular UPS

-  **Capacity Range:** 40-1200 kVA
-  **Module Sizes:** 10-50 kVA
-  **Output Power Factor:** 1.0 (kVA = kW)
-  **Input Voltage Range:** 138-485 V
-  **Operating Frequency:** 40-70 Hz
-  **Efficiency:** Up to 96%
-  **Noise Level:** <66-73 dB
-  **Compliance Standards:**
IEC/EN62040-1, IEC/EN62477-1,
IEC/EN62040-2 (EMC)

3-Phase UPS

-  **Capacity:** 10-200 kVA
-  **Power Factor:** 0.9 (up to 1.0 on select models)
-  **Output Voltage:** 380/400/415 V (3Ph+N+PE)
-  **Battery:** 16-50 pcs (12V, 7-9 Ah VRLA)
-  **Efficiency:** Up to 94.5%
-  **Noise Level:** <50 dB @ 1 m
-  **Compliance:** IEC/EN62040-1/2, EN62477-1, EMC
-  **Performance & Protection**
 -  **True Online Double Conversion (DSP-controlled)**
 -  **N+X Parallel Redundancy (up to 4 units)**
 -  **Wide Input Range:** 208-478 V, 40-70 Hz
 -  **THDi <3% (Low Harmonic Distortion)**
 -  **Dual Input Source for reliability**
 -  **High Charging Capacity:** Up to 20 A
 -  **Protection:** Short-circuit, overload, thermal, battery, fan
-  **Interface & Control**
 -  **LCD Display:** 2.4" TFT or optional 7" touchscreen
 -  **Intelligent Fan Control for noise and longevity**
 -  **Communication:** USB, RS232/485, SNMP, relay, dry contact
 -  **50/60 Hz Frequency Converter Mode**
 -  **ECO Mode + Generator Compatible**
 -  **Unbalanced Load Support:** Stable under 100% imbalance

TYPICAL APPLICATION

Micropower – Line Interactive UPS

This category is ideal for personal and small office environments. It provides reliable backup for:

Personal computers and workstations, CCTV and security systems, routers, switches, and network devices, point-of-sale terminals, and general home and office electronics.

Single Phase Rack & Tower UPS Series

Tailored for IT setups and compact infrastructure, this series supports:

Small to medium-sized data centers, office IT equipment and networks, security and surveillance systems, industrial control and automation, and healthcare or laboratory equipment.

3-Phase UPS

Built for high-demand operations and mission-critical systems, typical applications include:

Enterprise and modular data centers, healthcare and life-safety equipment, industrial automation and process control, financial institutions and server rooms, and critical communication or telecom systems.

Modular UPS

Designed for scalability and uninterrupted performance across large infrastructures, this range powers:

Cloud and enterprise data centers, telecommunications hubs, industrial automation and manufacturing plants, hospitals and healthcare facilities, and financial institutions with critical IT infrastructure.

PRODUCT FEATURES

Micropower – Line Interactive UPS

- ⚡ Line Interactive Technology with simulated sinewave output
- 🧠 Microprocessor control for high reliability and intelligent self-diagnostics
- ⚡ Automatic Voltage Regulation (AVR) with one boost and one buck for stable power supply
- ⚡ Cold Start Function – start the UPS even without AC power
- ⚡ Auto Restart when utility power recovers
- ⚡ Fast, intelligent battery recharge (90% capacity in 4–8 hours)



- 📊 User-friendly display options – LED or LCD panels
- ⚡ Off-Mode Charging – charge batteries even when UPS is off
- 💻 Optional Communication Ports – USB/RS232 with RJ11/RJ45 protection
- ⚙️ Generator Compatible
- 🛡️ Comprehensive Protection
 - Overload, short circuit, overcharge & deep-discharge protection
- 🔊 Audible alarms for low battery, overload, and fault conditions
- 📈 LCD/LED indicators for input voltage, output voltage, load, battery level, and system status

Single Phase Rack & Tower UPS Series

- ⚡ True Online Double Conversion with full digital control for ultimate reliability.
- ⚡ High Efficiency up to 93.5%, reducing operating costs and heat output.
- ⚡ Wide Input Voltage Range (110–300 V) with power factor correction (PF 0.9).
- ✳️ Flexible Design – rack/tower convertible form factors.
- 🔋 Scalable Backup – built-in batteries for standard backup; extendable with external battery packs for longer runtimes.
- ♻️ Hot-Swappable Batteries and cold start capability.
- 📊 User-Friendly LCD Panel for monitoring input/output, load, and battery status.
- 🛡️ Advanced Protection against short-circuit, overload, overheating, overcharge, and over-discharge.
- ⚡ Parallel Redundancy (N+X) support in higher-capacity models (6–10 kVA).
- 🔗 Multiple Communication Options – RS232, USB, EPO, relay card, SNMP card.
- 🌿 ECO Mode for energy saving.
- ⚡ Generator Compatible for flexible deployment.



3-Phase UPS

- ⚙️ True Online Double Conversion with DSP control.
- ✳️ N+X Parallel Redundancy – up to 4 units in parallel for high availability.
- ⚡ Wide Input Voltage Range (208–478 V) and wide frequency tolerance (40–70 Hz).
- ⚡ Low Harmonic Distortion – input current THDi <3%.
- 🔋 Flexible Battery Configuration – adjustable from 16 to 50 batteries depending on capacity.
- ⚡ High Charging Capacity – up to 20 A, configurable per requirement.
- ⚡ Dual Input Source option for enhanced reliability.
- ⚡ High Efficiency – up to 94.5%, reducing operating costs.



- 💻 Advanced LCD Interface – 2.4" TFT or optional 7" color touchscreen display.
- 🛡️ Comprehensive Protection – against short-circuit, overload, overheating, overcharge/discharge, and fan failure.
- מאו Intelligent Fan Control for reduced noise and extended component life.
- 🔗 Communication Options – USB, RS232, RS485, parallel port, SNMP card, dry contact, relay card.
- 🔄 Generator Compatible and supports ECO mode for energy saving.
- 🔄 50/60 Hz Frequency Converter Mode.
- ⚖️ Unbalanced Load Support – stable output even under 100% unbalanced load.



Modular UPS

- 🧱 Scalable Architecture – expand from 40 kVA up to 1200 kVA by adding hot-swappable modules
- High Reliability – multiple digital bus architecture with redundancy control; system remains online even if one module fails.
- ⚙️ True Online Double Conversion with DSP technology for clean and stable power.
- High Efficiency – up to 96% with three-level topology design.
- ⚡ Low Harmonic Distortion – THDi <3% with power factor up to 0.99.
- 🌿 Green Operation – intelligent sleep mode when load is low, optimizing energy savings.
- 🔋 Advanced Battery Flexibility – compatible with both VRLA and Lithium batteries; shared battery banks supported.
- ⚖️ Strong Load Capability – output power factor 1.0; supports 100% unbalanced loads, inductive and capacitive.
- 🛡️ Comprehensive Protection – short-circuit, overload, overheating, overcharge/discharge, and fan failure.
- 💻 User-Friendly Management – 7" or 10" touchscreen LCD with history and fault log export.
- 🔗 Flexible Communication – RS232, RS485, BMS, SNMP (optional), dry contact, relay card.
- 🔄 Generator Compatible – soft power walk-in function reduces generator sizing requirements



WHY CHOOSE OUR UPS?

Our Micropower Line Interactive UPS is the go-to choice for SOHO setups, POS systems, and small networks. With AVR stabilization, intelligent battery management, and a compact footprint, it ensures uninterrupted productivity during voltage fluctuations and minor outages – all while fitting seamlessly into tight spaces.

For more demanding environments, the Single Phase Rack & Tower UPS Series offers flexible mounting, real-time diagnostics, and scalable battery options. Meanwhile, the 3-Phase UPS steps up with true online double conversion, parallel redundancy, and advanced communication protocols – ideal for data centers, industrial automation, and enterprise networks.

Our Transformer-based UPS solutions provide robust isolation, enhanced surge protection, and superior reliability – making them the preferred choice for industrial facilities, medical equipment, and mission-critical environments.

Our Modular UPS delivers dynamic scalability, hot-swappable modules, and centralized control for large data centers, hospitals, and critical infrastructure. With N+X redundancy and high-density power in a compact form, it's the ultimate solution for organizations that demand zero downtime and maximum resilience.

ORDER INFORMATION

Micropower - Line Interactive UPS	
Part No.	Description
VL600	Line interactive UPS, simulated sinewave; 600VA/360W, LED display;140-300Vac, French cable plug Without any communication port; plastic case With one piece 12V/7AH battery; with 2 Universal sockets
VL800	Line interactive UPS, simulated sinewave; 800VA/480W, LED display;140-300Vac, French cable plug Without any communication port; plastic case With one piece 12V/9AH battery; with 2 Universal sockets
VL1000	Line interactive UPS, simulated sinewave; 1000VA/600W, LED display;140-300Vac, French cable plug Without any communication port; plastic case With Two pieces 12V/7AH battery, with 4 Universal sockets
VL1500	Line interactive UPS, simulated sinewave; 1500VA/900W, LED display;140-300Vac, French cable plug Without any communication port; plastic case With Two pieces 12V/9AH battery, with 4 Universal sockets
VL2000	Line interactive UPS, simulated sinewave; 2000VA/1200W, LED display;140-300Vac, French cable plug, Without any communication port; plastic case With Two pieces 12V/9AH battery, with 4 Universal sockets
VL3000	Line interactive UPS, simulated sinewave; 3000VA/1800W, LCD display;140-300Vac, French cable plug, Without any communication port; Metal case With 4 pieces 12V/9AH battery, with 4 Universal sockets

1-10KVA Rack type UPS, PF 0.9	
Part No.	Description
V101SPR-RTY	1K 24V rack-type Online UPS, 1KVA/0.9KW, PF,0.9, 1:1 With communication port; Pure sinewave; with built-in 2 pcs 12V/9Ah , battery net weight, 2.5KG/pc [Long delay discharge, support external battery box]
V101SPR-36RTY	1K 36V rack-type Online UPS, 1KVA/0.9KW, PF,0.9, 1:1 With communication port; Pure sinewave; with built-in 3 pcs 12V/9Ah, battery net weight,2.5KG/pc
V102SPR-RTY	2K 48V rack-type Online UPS, 2KVA/2KW, PF,0.9, 1:1 With communication port and cable; Pure sinewave; with built-in 4 pcs 12V/9Ah, battery net weight,2.5KG/pc
V102SPR-72RTY	2K 72V rack-type Online UPS, 2KVA/2KW, PF,0.9, 1:1 With communication port and cable; Pure sinewave; with built-in 6 pcs 12V/9Ah, battery net weight,2.5KG/pc

V103SPR-RTY	3K 72V rack-type Online UPS, 3KVA3KW, PF,0.9, 1:1 With communication port; Pure sinewave; Pure sinewave; with built-in 6 pcs 12V/9Ah, battery net weight,2.5KG/pc
V101HPR-RTY	1K 24V rack-type Online UPS, 1KVA1KW, PF,0.9, 1:1 With communication port; Pure sinewave; without battery inside,
V101HPR-36RTY	1K 36V rack-type Online UPS, 1KVA/0.9KW, PF,0.9, 1:1 With communication port; Pure sinewave; without battery inside,
V102HPR-RTY	2K 48V rack-type Online UPS, 2KVA/2KW, PF,0.9, 1:1 With communication port and cable; Pure sinewave; without battery inside,
V102HPR-72RTY	2K 72V rack-type Online UPS, 2KVA/2KW, PF,0.9, 1:1 With communication port and cable; Pure sinewave; without battery inside,
V103HPR-RTY	3K 72V rack-type Online UPS, 3KVA/3KW, PF,0.9, 1:1 With communication port; Pure sinewave; without battery inside,
V103HPR-96RTY	3K 96V rack-type Online UPS, 3KVA/3KW, PF,0.9, 1:1 With communication port; Pure sinewave; without battery inside,
V106HPR-RTY	6K Rack-type Online UPS, 6KVA/6KW, PF,0.9, single phrase in and out, with communication port; Pure sinewave; without built-in battery
V110HPR-RTY	10K Rack-type Online UPS, 10KVA10KW, PF,0.9, single phrase in and out, with communication port; Pure sinewave; without built-in battery

1-10KVA Tower-type UPS, PF 0.9

Part No.	Description
V101SPR-TY	1K 24V tower-type Online UPS, 1KVA/0.9KW, PF,0.9, 1:1 With communication port ; Pure sinewave; with built-in 2 pcs 12V/9Ah , battery net weight, 2.5KG/pc[Long delay discharge, support external battery box]
V101SPR-36TY	1K 36V tower-type Online UPS, 1KVA/0.9KW, PF,0.9, 1:1 With communication port ; Pure sinewave; with built-in 3 pcs 12V/9Ah , battery net weight,2.5KG/pc
V102SPR-TY	2K 48V rack-type Online UPS, 2KVA/2KW, PF,0.9, 1:1 With communication port and cable; Pure sinewave; with built-in 4 pcs 12V/9Ah , battery net weight,2.5KG/pc
V102SPR-72TY	2K 72V tower-type Online UPS, 2KVA/2KW, PF,0.9, 1:1 With communication port and cable; Pure sinewave; with built-in 6 pcs 12V/9Ah , battery net weight,2.5KG/pc
V103SPR-TY	3K 72V tower-type Online UPS, 3KVA/3KW, PF,0.9, 1:1 With communication port ; Pure sinewave; Pure sinewave; with built-in 6 pcs 12V/9Ah , battery net weight,2.5KG/pc
V103SPR-96TY	3K 96V tower-type Online UPS, 3KVA/3KW, PF,0.9, 1:1 With communication port ; Pure sinewave; Pure sinewave; with built-in 8 pcs 12V/9Ah , battery net weight,2.5KG/pc

V101HPR-TY	1K 24V tower-type Online UPS, 1KVA/0.9KW, PF,0.9, 1:1 With communication port ; Pure sinewave; without battery inside ,
V101HPR-36TY	1K 36V tower-type Online UPS, 1KVA/0.9KW, PF,0.9, 1:1 With communication port ; Pure sinewave; without battery inside ,
V102HPR-TY	2K 48V tower-type Online UPS, 2KVA/2KW, PF,0.9, 1:1 With communication port and cable; Pure sinewave; without battery inside ,
V102HPR-72TY	2K 72V tower-type Online UPS, 2KVA/2KW, PF,0.9, 1:1 With communication port and cable; Pure sinewave; without battery inside ,
V103HPR-TY	3K 72V tower-type Online UPS, 3KVA/3KW, PF,0.9, 1:1 With communication port and cable; Pure sinewave; without battery inside ,
V103HPR-96TY	3K 96V tower-type Online UPS, 3KVA/3KW, PF,0.9, 1:1 With communication port and cable; Pure sinewave; without battery inside ,
V106SPR-TY	6K tower-type Online UPS, 6KVA/6KW, PF0.9 , single phrase in and out, with communication port; Pure sinewave; with built-in battery 16 PCS 7Ah battery
V110SPR-TY	10K Rack-type Online UPS, 10KVA/10KW, PF 0.9, single phrase in and out, with communication port; Pure sinewave; with built-in battery 16 PCS 9Ah battery
V106HPR-TY	6K tower-type Online UPS, 6KVA/6KW, PF0.9 , single phrase in and out, with communication port; Pure sinewave; with NO BATTERY INSIDE
V110HPR-TY	10K Rack-type Online UPS, 10KVA/10KW, PF 0.9, single phrase in and out, with communication port; Pure sinewave; with NO BATTERY INSIDE

VOLTAN

Voltan Technology Limited stands as a dedicated leader in the electrical and electronics manufacturing industry, with a strong footprint across diverse sectors.

Recognized globally as a specialist in low voltage solutions, we operate from our headquarters in London, UK. Delivering advanced, efficient methodologies to meet the dynamic needs of our clients.

Our comprehensive portfolio includes UPS systems, LAN & Control cables, Network Racks, and IP enclosures. We are proud to support a wide array of industries, including government, hospitality, education, healthcare, utilities, media and entertainment.

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