

Empowering Your Business with

UPS SYSTEMS



POWERING CONNECTIONS



Uninterrupted Power for Critical Infrastructure

- ✓ **Reliable Backup Power for Critical Loads:** Design, supply, and installation of single-phase and three-phase Uninterruptible Power Supply (UPS) systems, ranging from 1kVA to 1.2MVA+, ensuring continuous, high-quality power for data centers, hospitals, industrial controls, and telecommunications.
- ✓ **Advanced Power Conditioning:** Implementation of double-conversion online topology UPS systems that provide complete isolation from utility power fluctuations, delivering clean, stable, and regulated output voltage and frequency, protecting sensitive electronic equipment from sags, swells, transients, and harmonics.
- ✓ **Scalable and Modular Architecture:** Deployment of modular UPS solutions that allow for incremental capacity expansion (e.g., N+1 or N+X redundancy) and hot-swappable power modules, minimizing downtime during maintenance or upgrades and adapting to growing power demands.
- ✓ **Intelligent Battery Management:** Integration of advanced battery monitoring systems (BMS) for lead-acid (VRLA, Flooded) or Lithium-ion battery banks, optimizing battery health, extending lifespan, and providing predictive failure alerts through real-time data analysis of temperature, voltage, and current.

Technical Specifications

Features

- ✓ System Type
- ✓ Topology
- ✓ Power Capacity
- ✓ Input Voltage
- ✓ Output Formats
- ✓ Frequency
- ✓ Efficiency
- ✓ Battery Type
- ✓ Battery Runtime
- ✓ Redundancy
- ✓ Communication
- ✓ Compliance

Specifications

- ✓ Uninterruptible Power Supply (UPS)
- ✓ True Double Conversion Online (VFI-SS-111)
- ✓ 1kVA to 1.2MVA+ (Single or Three Phase)
- ✓ 230/400V AC, 3-phase, 4-wire + Earth (configurable)
- ✓ 230/400V AC, 3-phase, 4-wire + Earth (configurable)
- ✓ 50/60 Hz (Auto-sensing, Frequency Converter Mode)
- ✓ Up to 97% in Online Mode; Up to 99% in ECO Mode
- ✓ Valve Regulated Lead Acid (VRLA), Flooded Lead Acid, Lithium-ion (LiFePO4)
- ✓ Configurable from 5 minutes to several hours, based on load
- ✓ N+1, N+X Parallel Redundant Configurations
- ✓ SNMP, Modbus RTU/TCP, RS232, Dry Contacts for BMS/SCADA integration
- ✓ IEC 62040-1 (Safety), IEC 62040-2 (EMC), IEC 62040-3 (Performance)

Why Choose Us?

- 01.** **Guaranteed Power Continuity:** Our UPS systems, featuring true double conversion online topology, provide absolute protection against all power disturbances, ensuring seamless, uninterrupted power to your critical infrastructure and preventing costly downtime and data corruption.
- 02.** **Superior Power Quality:** Delivering pure sine wave output with precise voltage and frequency regulation, our UPS solutions safeguard your sensitive electronics from harmful power anomalies, extending equipment lifespan and maintaining optimal performance.
- 03.** **Flexible and Future-Proof Investment:** With modular, scalable designs and advanced battery management, our UPS systems offer unparalleled flexibility for capacity expansion and ensure long-term reliability, adapting effortlessly to your evolving power protection needs.

GET IN TOUCH WITH US

Phone
+971 (0) 429 67114

Mail
info@mactek.ae

Website
www.mactek.ae

Location
805B Ibn Battuta Gate, Dubai,
UAE