



PLACE WHERE IDEAS IS TURNING INTO IMPACT

**COMPANY
PROFILE**



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ENERGIZE SAFELY

ABOUT VOLT^X



Founded in 2020 in Egypt, VOLT^X is the first local manufacturer in the MEA region specialized in electrical testing equipment, Neutral Earthing Resistors (NER), battery chargers, load banks, and advanced power solutions.

Driven by a highly qualified R&D team, VOLT^X develops innovative, reliable, and field-proven products that comply with international standards and cutting-edge technologies.

We combine engineering expertise with modern manufacturing processes to deliver high-performance, cost-effective solutions that meet the evolving demands of utilities, industrial facilities, infrastructure projects, and energy providers.

Our commitment to continuous improvement ensures that every VOLT^X product remains technologically advanced, operationally reliable, and aligned with global engineering benchmarks.



„OUR VISION“

To become the leading R&D-driven manufacturer of advanced power solutions in the MEA region, pioneering the future of electrical testing and protection through continuous innovation, uncompromising reliability, and engineering excellence.



„OUR MISSION“

To design, develop, and manufacture high-performance electrical power solutions through advanced research, rigorous testing, and state-of-the-art engineering practices.

We are committed to transforming innovative ideas into reliable, field-proven products that comply with international standards, empower our customers, and ensure safe, efficient, and sustainable power systems.



OUR PRODUCT PORTFOLIO



NEUTRAL EARTHING RESISTORS

NER

VOLTX Neutral Earthing Resistors are engineered to provide safe and effective grounding for medium-voltage systems up to 36kV. By limiting earth-fault currents, our NERs protect transformers, generators, and switchgear from severe damage while maintaining system stability and protection coordination.

Designed by our in-house R&D team using advanced thermal and electrical modelling, VOLTX NERs ensure fast fault detection, controlled energy dissipation, and long-term operational reliability without introducing harmful over-voltages.



KEY STRENGTHS

- ✓ **Earth-fault current limitation up to 1000 A**
- ✓ **Rated system voltage up to 36kV**
- ✓ **High-temperature-resistant elements up to 760°C**
- ✓ **Continuous current rating up to 5 A**
- ✓ **Thermally and electrically optimized design**
- ✓ **Element Type: Grid Type / Wire Type**
- ✓ **Custom-engineered configurations (Indoor / Outdoor / IP-rated)**



PRIMARY CURRENT INJECTION TESTER

The VOLTX Primary Injection Tester is a portable, R&D-engineered high-current test system designed for precise commissioning and routine verification of protection relays and current transformers (CTs).

It integrates True-RMS digital metering, a 7-inch full-colour touchscreen, and optional remote control via mobile application – enabling safe, accurate, and PC-free testing in substations and industrial environments.

KEY FEATURES

- ✓ *Current ranges from 650 A up to 7000 A*
- ✓ *Stand-alone touchscreen operation*
- ✓ *Automatic, Manual, and Breaker modes*
- ✓ *Remote monitoring via mobile app*
- ✓ *High-precision True-RMS measurement*
- ✓ *Compact, rugged, field-ready design*
- ✓ *Ideal for CT, circuit breaker, and ground grid testing*





HI-POT TESTER

The VOLT^{TX} Hi-Pot Tester is a portable, high-voltage AC/DC dielectric insulation testing solution designed for circuit breakers, cables, transformers, motors, generators, and busbars.

Built for field reliability, it delivers stable high-voltage AC output with intuitive stand-alone operation — ensuring safe and efficient insulation assessment without external PCs.

KEY STRENGTHS

- ✓ *AC dielectric tester up to 100kV AC*
- ✓ *AC/DC dielectric tester up to 5kVAC & 6kVDC*
- ✓ *7-inch colour touchscreen interface*
- ✓ *Real-time digital monitoring of voltage, current, and test duration*
- ✓ *Rugged, portable design for harsh environments*



AC LOAD BANK

The VOLT³ Three-Phase AC Load Bank is engineered for balanced resistive load testing and continuous-duty operation. Designed for harsh field environments, it integrates microprocessor-based control and advanced thermal management to ensure safe and repeatable performance.

KEY STRENGTHS

- ✓ *Guaranteed phase balance within $\pm 10\%$*
- ✓ *7-inch stand-alone HMI touchscreen*
- ✓ *Microprocessor-controlled*
- ✓ *On-screen: Power, Current, Voltage readings*
- ✓ *Status indicators (Power ON, Blower, Alarms)*
- ✓ *Operates up to 55°C ambient temperature*
- ✓ *Compact design with no special site cabling required*



DC LOAD BANK

The VOLTX DC Load Bank is a microprocessor-controlled solution designed for battery capacity testing, acceptance testing, and maintenance of DC systems. It combines programmable discharge profiles with intuitive touchscreen operation to deliver accurate and repeatable testing results without external PCs.

KEY STRENGTHS

- ✓ *Capacity & acceptance testing for batteries & UPS systems*
- ✓ *Programmable multi-step discharge profiles*
- ✓ *Custom-engineered ratings per project requirements*
- ✓ *End-voltage setting*
- ✓ *On-screen current and voltage metering*
- ✓ *7-inch touchscreen with remote connectivity*
- ✓ *Portable, user-friendly field design*



POWER SUPPLY TRUCK

The VOLT^{TX} Power Supply Truck is a high-efficiency, heavy-duty solution designed for reliable DC power delivery in industrial and utility applications.

KEY STRENGTHS

- ✓ *AC Input: 3 Phase 380VAC $\pm$ 10%*
- ✓ *Isolated transformer or SMPS design*
- ✓ *Three stand-alone modes: AC Voltage, DC Voltage & AC Current*
- ✓ *DC Voltage Outputs: 12/24/48/110/220 VDC & variable up to 300VDC*
- ✓ *AC Voltage Outputs: 1 Ph & 3Ph, 110/220/380VAC & variable up to 690VAC*
- ✓ *AC Current Output: 1 Ph & 3Ph, up to 50AAC*
- ✓ *Stand-alone 7-inch touchscreen*
- ✓ *Digital metering and status indicators*
- ✓ *Rugged industrial design*



BATTERY CHARGERS

VOLTX Stationary / Portable Battery Chargers are microprocessor-controlled DC systems designed to supply critical loads while simultaneously charging batteries with high stability and reliability

KEY STRENGTHS

- ✓ *Stationary / Portable Battery Chargers*
- ✓ *Universal AC input (3 Phase 400VAC / 1 Phase 250VAC)*
- ✓ *Power Factor up to 0.9*
- ✓ *Efficiency up to 93%*
- ✓ *Output Voltage: 48V, 110V, 220V (up to 250 VDC)*
- ✓ *Output Current: up to 250A*
- ✓ *Compatible with Lead-Acid (Flooded, Gel, AGM) batteries*
- ✓ *6-Pulse fully controlled SCR (Thyristor) system*
- ✓ *7" Touch Screen HMI*
- ✓ *Digital metering, alarms, and status indicators*
- ✓ *Fail-safe switching contactors*
- ✓ *Forced air cooling*
- ✓ *Temperature compensation*
- ✓ *Compact and field-proven design*



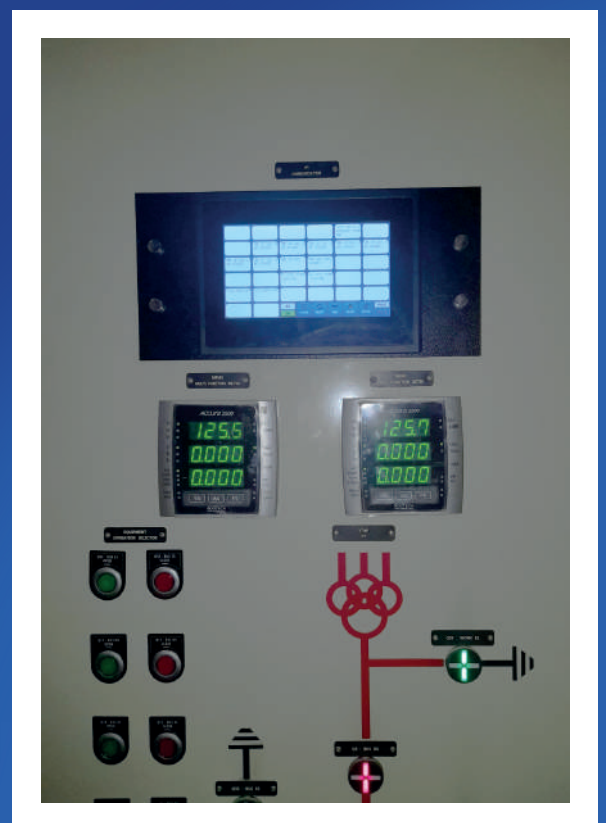
PROGRAMMABLE ALARM ANNUNCIATOR

REAL-TIME MONITORING SOLUTION

The VOLT-X Programmable Alarm Annunciator is a smart monitoring and alarm management system designed to enhance operational visibility and ensure rapid fault response in substations, industrial facilities, and power plants.

KEY FEATURES

- ✓ Available in configurable sizes (12 / 24 / 36 flags or customized)
- ✓ Multicolour touchscreen display (4", 7", or 10")
- ✓ Redundant wide-range AC/DC power supply
- ✓ Individual repeater relay contact for each flag
- ✓ Built-in horn with external horn contact
- ✓ On-screen watchdog alarm with remote watchdog output
- ✓ Event log storage on HMI or external memory card (optional)
- ✓ Cloud platform integration (optional)
- ✓ Editable signal labels via touchscreen keyboard
- ✓ Compact, low-power, rugged industrial design



EV CHARGERS

EV CHARGER (TYPE 2)

VOLTX EV Chargers demonstrates our rapid engineering capability and local manufacturing strength.

KEY INNOVATIONS

- ✓ Up to 32A 1ph
- ✓ Precise kWh energy metering
- ✓ Protections: RCD, over current, under/over voltage & over temperature
- ✓ Controlled output current 8-32A

GOLF CAR CHARGER

For El Sewedy Electric, VOLTX successfully transitioned from concept to full operation in under two months, delivering 100 smart charging controllers for golf cars at Marassi – showcasing 100% Egyptian engineering and manufacturing excellence.

KEY INNOVATIONS

- ✓ Charging up to 10 cars at a time
- ✓ Precise kWh energy metering
- ✓ 4G cloud connectivity for real-time monitoring
- ✓ Centralized automated billing & control
- ✓ Compact, secure design with flexible payment integration



OUR REFERENCE

LIST



PRIMARY CURRENT INJECTION



NEUTRAL EARTHING RESISTOR



ALARM ANNUNCIATOR



LOAD BANKS



HIPOT



POWER SUPPLY

