MANUFACTURING • CUSTOMIZATION • LOAD TESTING

AC & DC

Load bank solutions

Engineered around your test.



Representative containerised enclosure.

CUSTOM MANUFACTURING

From 1 kW to multi-megawatt

AC resistive • AC inductive • AC resistive + inductive • DC resistive

Manual control / PLC + HMI / SCADA

ABOUT VOLT CONTROL SYSTEM

Power engineering. Made in Pune.

Customized electrical equipment for industrial and institutional applications.

Volt Control System manufactures load banks, power-conditioning equipment, power converters and winding components. We configure our products around the electrical requirements, operating conditions and installation needs of each project.

01

Understand the source and test requirement

02

Configure the electrical and mechanical design

03

Manufacture, test and support the unit



Built around your application

From compact operator-controlled units to automated containerised systems, our focus is practical operation, clear specifications and application-specific customization.

Load banks are part of a wider manufacturing portfolio. Explore our other power solutions on page 8.

AC LOAD BANKS

Resistive. Inductive. Combined.

Single-phase and three-phase systems configured for the electrical source under test.

Resistive | kW

Active-power loading at unity power factor for generators, UPS systems, inverters and other AC sources.

Inductive | kVAr

Reactive loading for lagging power-factor testing. Specify the required kVAr, supply voltage and test duty.

Resistive + inductive | R+L

Combined active and reactive loading. The design coordinates kW, kVAr, combined kVA and the required power-factor range.

CUSTOM CAPACITY

From 1 kW onwards

Voltage, frequency, step resolution, duty and operating limits are defined for each project. Larger capacities are engineered to the application.

DC LOAD BANKS • MANUFACTURED BY VOLT CONTROL SYSTEM

DC power needs a test load too.

Custom DC resistive load banks for battery systems and DC power sources.



DC load bank product visual; configuration shown is one example.

DC load bank

Manufactured by
Volt Control System

Configure voltage, current, power and test duration around your DC source.

Battery discharge & DC source testing

Resistive loading for battery banks, DC power supplies, rectifiers and chargers. Specify the voltage range, current, load steps and test duration.

Load selection	Manual switched stages or automated control, according to the project specification.
Measurement & records	DC voltage and current; power, logging and reporting where included in the selected control package.
Protection & cooling	DC-rated switching and protection, polarity provisions, thermal supervision and cooling matched to the duty.

For a resistive DC bank, current varies with voltage. Constant-current discharge, automatic cutoff and capacity reporting must be specified and confirmed separately.

CONTROL & TEST INTELLIGENCE

From operator-led to automated.

Choose the control package around the way you test.

Manual

Direct stage selection with visible metering for operator-led tests.

PLC + HMI

Touch-screen operation, live measurements and programmable load profiles.

SCADA

Configured monitoring, alarms and history for industrial test systems.

PROGRAMMABLE FUNCTIONS

Sequence. Cycle. Endurance.

Set load levels, increments and dwell times; repeat load cycles or maintain an approved load for a programmed duration, where configured.

Measurements	Voltage, current, power, frequency and PF as applicable to AC / DC and the installed meter.
Reports & connectivity	Configured data logging; CSV / Excel export; PDF where supported. Ethernet and Modbus options by control package.
Safety coordination	Emergency stop, electrical protection, fan / airflow supervision, temperature limits and load interlocks as specified.

PHYSICAL CONFIGURATIONS

Built to fit the installation.

Portable, stationary, trailer-mounted and containerised arrangements by project.



Compact / manual



Automatic



Containerised

Representative AC product visuals from our supplied brochures.

Airflow & cooling	Forced-air cooling; intake, exhaust direction and clearances selected around heat rejection and installation conditions.
Indoor / outdoor	Specify environmental conditions and the required IP rating. Weather protection is engineered for the selected enclosure.
Access & movement	Dimensions, service doors, lifting points, castors or trailer arrangements configured for the unit.
Electrical interface	Supply termination, cable entry, auxiliary power, switching and protection matched to the approved ratings.

APPLICATIONS

Test the performance that matters.

Load simulation for manufacturing, commissioning, service and evaluation.

Generators & alternators

Staged loading, commissioning and endurance tests.

Data centres

Electrical load simulation for generator and UPS commissioning.

UPS & inverters

Controlled loading for performance and runtime evaluation.

Battery banks

Custom DC discharge loads for battery-system testing.

Rectifiers & DC supplies

DC output loading matched to voltage, current and duty.

Special projects

Project-specific voltage, frequency and installation arrangements.

Application suitability, test functions and permissible loading are confirmed in the technical offer.

WE ALSO MANUFACTURE

More than load banks.

A wider range of power-conditioning, conversion, charging and magnetic products.

Voltage stabilization



Servo controlled voltage stabilizers
Static voltage stabilizers • CVT

Power conversion



Static frequency converters
Phase converters • DC rectifiers
DC power supplies

Backup & charging



UPS systems • Battery chargers
Transformer-based and SMPS types

Control & magnetics



Motorised dimmers / variacs • ATS
Transformers • Line chokes

Selected product photographs from our manufacturing portfolio. Contact us for application-specific configurations.

SELECTED MAJOR CUSTOMERS

Established relationships.

Selected customers across Volt Control System’s electrical product portfolio.

SIEMENS Ingenuity for life
Schneider Electric
TATA TATA POWER
TATA TATA PROJECTS
LARSEN & TOUBRO
BHEL भारत हैवी इलेक्ट्रिकल्स लिमिटेड हरिद्वार
NTPC A Maharatna Company NTPC Limited (A Govt. of India Enterprise)
MDL
पावरग्रिड POWERGRID
adani Power
POWERICA A PROMISE FOR POWER
JAKSON
DRDO
Naval Dockyard
NPCIL
bemL NEW FRONTIERS. NEW DREAMS
JSW
IndianOil

START YOUR ENQUIRY

What do you need to test?

AC or DC. Standard requirements or a custom engineering project.

Source & electrical rating	AC / DC; equipment under test; kW / kVA / kVAr; voltage; current; phase and frequency as applicable.
Loading & duration	Minimum step; load profile; duty; duration; PF for R+L, or battery voltage range and discharge requirement for DC.
Installation & control	Environment; available space; cooling clearance; mobility; auxiliary supply; controls, communication and reporting.

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All features are subject to the agreed technical configuration. Specifications, dimensions and appearance may change due to continuous improvement. Final approved documentation governs supply.