

# 2500KVA Resistive Inductive Load Bank

This compact and lightweight load bank is designed for easy relocation. It provides intelligent controls, safety features, adjustable load step resolution, and is ideal for maintenance and commissioning of emergency power systems.



## Overview

### High-Capacity Testing Solution

This 2500KVA Resistive Inductive Load Bank is engineered for rigorous performance evaluation of large-scale power generation systems, including generators and UPS units. Featuring a compact, weather-proof enclosure, it provides precise control over both resistive and inductive loads to simulate real-world industrial conditions. The system includes advanced digital metering, data logging capabilities, and rugged construction to ensure reliable operation in harsh outdoor environments.

## System Performance

### Key Performance Metrics

**2500 kVA**

Apparent Power

**2000 kW**

Resistive Load

**1500 kVAR**

Inductive Load

**0.8 lag**

Power Factor

### Load Step Resolution

Load Type	Steps	Details
Resistive	18	1kW to 200kW steps
Inductive	16	1kVAR to 200kVAR steps

## Technical Specifications

### Electrical Characteristics

- Voltage/Frequency: 400VAC, 3-phase 4-wire, 50Hz
- Control Voltage: External AC 3-phase 4-wire, 380V/50Hz
- Load Tolerance (Each Step):  $\pm 5\%$
- Load Tolerance (Overall):  $\pm 3\%$
- Insulation Class: F
- Protection Grade: IP54

### Physical Dimensions & Environment

- Dimensions: 6058mm x 2350mm x 2591mm
- Enclosure Type: Container type with ladder and mesh protection
- Operating Temperature:  $-20^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$
- Humidity:  $\leq 95\%$  RH
- Atmospheric Pressure: 86–106kPa

## Features

### Core Components

Schneider Contactors • Miro Fuses • Siemens PLC

### Key Features

Digital Metering, Manual/Remote Control, Data Logging, Branch Circuit Protection, Over-temperature Protection, Weather Proof, Continuous Duty