POWER LOAD
SMARTER LOAD BANKS. FASTER COMMISSIONING.



PORTABLE POWER-SYSTEM TESTING

200kW Air Cooled

Portable air load bank, ADC 400V-200kW

A compact portable resistive load bank for commissioning, testing and validation of 400 V three-phase power systems. Up to 200 kW of controllable load with both local manual and PC-based intelligent control, stepped loading from 1 kW, and exportable test records.

200kW
At 400 V, 180 kW at 380 V

1kW
Minimum load step

~100kg
Wheeled, with lifting eyes

RS485
PC software control

KEY FEATURES

- 200 kW maximum resistive load at 400 V, 180 kW at 380 V
- Stages of 1, 2, 2, 5, 10, 20, 40, 40 and 80 kW
- Real-time display of voltage, current, active power, power factor and frequency
- Continuous-duty design with wheels, lifting eyes and front handles
- Fine load control from a 1 kW minimum step
- Local manual control or intelligent PC software control via RS485
- Forced-air cooling, horizontal intake and vertical discharge
- Automatic loading, data recording, graphing and exportable results

ENGINEERED SAFETY AND HANDLING

- Portable wheeled cabinet for on-site positioning and movement
- Front handles and a recessed electrical connection bay
- Chassis grounding / earth connection
- Four lifting eyes for controlled lifting and handling
- Dedicated emergency-stop control on the front panel
- Fan interlock prevents load before cooling airflow is established

APPLICATIONS

Generator acceptance
Prove output, stability and response on 400 V three-phase supplies before handover.

UPS and switchgear
Apply a stepped resistive load from 1 kW to verify transfer, alarms and protection settings.

Staged load profiles
Programme automatic sequences by power level and time, such as 0, 25, 50, 75 and 100%.

Documented handover
Record at 1 second intervals and export graphs as JPG and data as Excel for the commissioning file.

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TECHNICAL SPECIFICATION

Load bank capacity	200 kW at 400 V, 180 kW at 380 V
Rated voltage and frequency	400 VAC, 50/60 Hz
Supply configuration	3 phase, 4 wire
Load steps	1, 2, 2, 5, 10, 20, 40, 40, 80 kW
Power factor	1.0, resistive
Load tolerance	Each step ±5%, overall ±3%
Display precision	0.5 grade
Fan control power	AC 110 to 240 V single phase, 50/60 Hz, approx. 3 kW
Control / communication	Local manual or PC software control, RS485
Power connection	Front connector panel, L1, L2, L3, N and earth
Insulation class	F
Duty	Continuous working
Cooling	Forced air, horizontal intake, vertical hot-air discharge
Weight	Approx. 100 kg
Operating environment	-20 to +50 °C, RH 95% or less, altitude 2500 m or less, 86 to 106 kPa

DIMENSIONS AND FINISH

Dimensions (W × D × H)	511 × 750 × 746 mm, per the outline drawing
Cabinet	Portable wheeled cabinet with castors, four lifting eyes, front handles and a top discharge grille
Finish	Oxidised black, with a recessed front control and power connection bay

PROTECTIONS

- Emergency stop unloads immediately on an abnormal condition
- Automatic unload with audible and visual alarm on input overvoltage
- Fuse-based short-circuit and over-current protection in the load circuit
- Automatic unload and alarm on over-temperature
- Fan interlock prevents load before airflow is established
- Grounding protection terminal

SUPPLIED ACCESSORIES

- RS485 communication cable
- RS485 / RS232 / USB converter

CONTROLS AND CONNECTIVITY

- Local manual load control with illuminated load-step buttons
- Programmable automatic loading sequences by power level and time
- Minimum software data-saving interval of 1 second
- Graphs exportable as JPG, data as Excel
- One-key master load and unload once the required power is pre-selected
- Real-time display of current, voltage, power, power factor, frequency and time
- Historical data query, charting and printing
- Parallel testing mode records each bank and the combined result