



Highlights

- Standalone Cabinet
- Resistive Load Elements
- Long-life Cr-Al Resistances
- Forced Air Cooling
- Automatic Control
- Steel Cabinet
- Crane Lifting Lugs
- Lockable Wheels for Mobility
- Vertical Air Release
- Smart Fan Protection System
- Corrosion Resistant
- Thermostatically Controlled Fans
- Standard EPO
- Overload Protection
- Digitally Adjustable
- 2 Years Warranty

Technical Specifications

GENERAL

Phase	Three-Phase AC Input
Technology	Resistive Element Dummy Load
Control	Contactors Controlled
Power Factor	1.0
Voltage	Custom Voltage Ratings Available
Load Resolution	Steps from 10 kW to 100 kW Customizable
Frequency	50 Hz / 60 Hz $\pm 10\%$
Load Tolerance	$< 3\%$
Voltage Tolerance	$< 2\%$
Areas of Use	Power Transformer, Generator, Alternator, UPS, Regulator etc.
Material	80/20 Nickel Chrome Resistance Wire
Reactors	Iron Core Type - Class F
Insulation Voltage	3000 V
Load Connections	Copper Busbars
Protection	EPO, Fan Fail, Over Temperature, Phase Shifting, Over Voltage, Overload
Resistance Temp	$< 120^\circ\text{C}$
Electric Characteristic	AC, DC, V, A, kW
Control Type	HMI Control Panel
Power Analyzer	V, A, W, VAr, Hz, cosPhi
AC Input	Three Phase, 3 wire delta or 4 wire wye
Time Rating	Continuous
Measurements	Current, Voltage, Temperature, Active/Reactive Power, Input Frequency
Control Voltage	Adjustable
Resolution	Adjustable
Air Outlet Temp	$< 110^\circ\text{C}$
Display	7" Touchscreen Display

SAFETY and STANDARDS

Over Voltage	IEEE 587 4500 A
Interference	Class A
Standards	IEC 62040-1-2-3, EN 50091-1 (Security), EN 50091-2 (EMC), ISO 9001, CE
Heat and Humidity	$-10^\circ\text{C} / + 60^\circ\text{C}$, 0 - 90% (non-condensing)
Noise Level	Less than 60 dB
Cooling	Forced Air Cooling
Protection Degree	IP55 or IP65

Applications and Industrial Importance

DNS AC Load Banks are specifically designed for the comprehensive performance testing of generators, UPS systems, voltage regulators, transformers, alternators, and specialized test laboratories. Beyond performance evaluation, they play a vital role in ensuring that emergency and continuous power generators operate safely under simulated dummy loads. In today's industrial landscape, energy reliability becomes more critical by the day. Testing, protecting, and maintaining power resources—whether used for temporary backup or continuous operations—has never been more essential. To meet these rigorous demands, the Hyperion Series Load Bank features high-quality resistors, digitally adjustable load control with precise resolution, and a heavy-duty, corrosion-resistant metal enclosure built to withstand harsh industrial environments.