

TALONTM NEST

LOAD BANKS

LEAD TIMES
IN WEEKS,
NOT MONTHS



Purpose-Built Rack Load Bank for Data Center Commissioning

AC Rack Mount Load Banks

Engineered for rack-level data center testing, commissioning, and thermal validation. Designed for installation in standard server rack environments, the series provides a controlled resistive load up to 20kW to simulate IT equipment before servers are installed or during power and cooling verification.

Each unit:

- Is built for realistic white space testing in data center environments
- Supports PDU validation and UPS testing
- Is ideal for rack circuit loading and airflow studies
- Enables HVAC performance verification
- Has static fan models that provide fixed airflow for repeatable testing
- Offers variable fan control adjustments of airflow and heat rejection
- Helps simulate expected server operating conditions for more accurate testing and commissioning results

TALON Nest units are designed for simple deployment, controlled load application, and repeatable test setup across single racks or multiple rack positions. Integrated monitoring and protection options support safe operation during commissioning, maintenance, and capacity planning in critical data center environments.



Integrated Controls for Fast, Repeatable Load Testing



Simulate Server Loads at the Rack Level with TALON Nest

Key Features

- **Up to 20kW Rack-Level Loading:**
Simulates IT load for rack, PDU, UPS, and branch circuit validation.
- **Standard Rack-Mounted Design:**
Built for deployment in data center cabinets and aisle testing environments.
- **Static or Variable Fan Control:**
Supports fixed airflow testing or adjustable airflow to better match server thermal profiles.
- **Adjustable Load Step Control:**
Allows engineers to apply controlled heat load for staged commissioning, burn-in, and capacity testing.
- **Hot Aisle / Cold Aisle Validation:**
Helps verify airflow paths, temperature rise, rack density, and cooling system performance.
- **Integrated Protection System:**
Includes branch circuit protection, fan/load interlocks, airflow monitoring, over-temperature protection, over-voltage protection, E-stop, alarms, and chassis grounding.

Technical Specifications

Nominal Voltage Rating	240VAC Single Phase
kW Models	Up to 20kW
Frequency	60Hz
Resolution	Down to 1kW (depending on model)
Cooling	Forced air cooling
Environmental	-20 – 50°C (14 – 122°F), ≤95% RH, IP20 Rating
Dimensions	12U
Weight	Approximately 77 lbs.
Power Connections	C20 Plugs

TALON Nest Applications

- Data center commissioning and integrated systems testing
- Rack-level UPS and PDU validation
- Branch circuit and breaker load testing
- Simulated server load testing before IT equipment installation
- Hot aisle / cold aisle airflow verification
- Rack power density testing from 1–20kW
- Load balancing across rack PDUs and panel-boards
- Burn-in testing for new data halls or renovated white space
- Capacity planning for future server deployments
- Spot load testing during maintenance or troubleshooting
- Thermal sensor and monitoring system verification
- Factory acceptance testing for rack-level power systems
- Temporary IT load simulation during migration or cutover projects



Cooling Design Built for High-Density Environments

Get a Grip on Your
Power System Testing with

TALONTM NEST

LOAD BANKS

- ✓ Fastest Lead Times!
- ✓ Rugged Design!
- ✓ Responsive Support!

“We rely on these for rack-level data center testing, commissioning, and thermal validation before the actual servers are installed and put into action.”

**-Mike J.
Sr. Project Manager**

Contact us for availability,
configuration options
and lead times!



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