168kW

AC/DC Liquid-Cooled + Air-Cooled Load Cabinet

The INLANX 168kW AC/DC liquid-cooled + air-cooled load cabinet is a modular hybrid load system designed for testing in data centers, power systems, energy storage systems and charging systems. It supports AC220V and DC270V testing, centralized control, manual loading and programmed loading. Load capacity can be configured flexibly to meet the needs of server rooms and test scenarios of different sizes.

Efficient Testing · Reliable Stability

- Standard: 3×48kW liquid cooling + 2×12kW air cooling, total 168kW
- AC/DC compatible: AC220V / DC270V
- Programmed + manual control
- One-touch loading: 25% / 50% / 75% / 100%
- Automatic AC/DC program identification
- PTC heating material
- Flexible combinations for different server-room test capacities
- Separate cabinet/module procurement with unified data integration
- Custom electrical interfaces: Harting 7PIN, Harting 5PIN, 63A industrial connectors, Amphenol plug-strip connectors, etc.



Core Advantages

- Modular combinations: flexible configuration to meet demand
- One-touch loading: fast multi-stage loading and convenient operation
- Flexible expansion: up to 240kW for future needs
- Integrated data: centralized control and unified data management
- Hybrid liquid + air cooling: efficient heat dissipation and reliable stability
- Custom interfaces: industrial interface options for different applications

Enclosure Dimensions

W	H	D
600	2300	1200

W600 × H2300 × D1200 mm

标配 C13-C14 电源线；其他接口按现场 PDU 标准确认。

电源线 / 连接器可选类型

多种规格可选，满足不同国家和行业的使用需求

01 国标线

3*1.5 mm²



线规	3×1.5 mm²
线长	线长可定制（标配1.5 m）
插头类型	国标三插
适用地区	中国大陆
适用设备	常规设备、机柜设备

02 C13 C14 欧标线

3*1.5 mm²



线规	3×1.5 mm²
线长	线长可定制（标配1.5 m）
插头类型	C14 公头
插座类型	C13 母座
适用地区	欧标 / 通用
适用设备	IT设备、服务器显示器等

03 C13 C20 线

3*1.5 mm²



线规	3×1.5 mm²
线长	线长可定制（标配1.5 m）
插头类型	C20 公头
插座类型	C13 母座
适用地区	通用
适用设备	大功率设备、机柜设备

04 C19 C20 线

3*1.5 mm²



线规	3×1.5 mm²
线长	线长可定制（标配1.5 m）
插头类型	C20 公头
插座类型	C19 母座
适用地区	通用
适用设备	服务器、工业设备高功率应用

05 63A 工业连接器

（按需定制）



电流	63 A
电压	380-415 V（可定制）
线长	线长可定制
适用场景	三相大功率设备 工业测试、数据中心等

06 单相32A工业连接器

（按需定制）



电流	32 A
电压	200-250 V（可定制）
线长	线长可定制
适用场景	单相大功率设备 工业测试、机柜设备等

Core Technical Parameters

Item	Specification
Model	INLANX-168kW
Standard Configuration	3×48kW liquid cooling + 2×12kW air cooling; total 168kW
Expandable Configuration	Up to 4×48kW liquid cooling + 4×12kW air cooling; maximum 240kW
Enclosure Dimensions	W600 × H2300 × D1200 mm
Voltage Mode	AC220V / DC270V compatible
Control	Programmed + manual
One-Touch Loading	25% / 50% / 75% / 100%
Loading Steps	AC single-phase 1kW/step; AC three-phase 3kW/step; DC270V 1kW/step
Load Material	PTC heating material
Electrical Acquisition	Voltage, current and power
Liquid-Cooling Acquisition	Inlet temperature, outlet temperature, pressure, flow, differential pressure and temperature difference
Data Functions	Data acquisition, display, storage and export
Module Structure	Module-level acquisition with system-wide data integration
Custom Interfaces	Custom electrical connections: Harting 7PIN, Harting 5PIN, 63A industrial connectors, Anfei plug-strip connectors, etc.
Application Features	Flexible combinations for different data-center test capacities
Liquid Circuit Valves	Each module has an individual valve. The water circuit can be shut off at any time to adjust the flow of each circuit.

Expandable Capacity

Expandable to 4×48kW liquid cooling + 4×12kW air cooling (maximum 240kW).

PTC Material Characteristics

1. Self-limiting temperature characteristics for safe, reliable operation
2. Quasi-constant-power regulation
3. Resistance increases with temperature
4. Stable and durable for liquid-cooling system testing



Acquisition and Display

• Electrical acquisition: voltage, current and power

• Liquid-cooling acquisition: inlet and outlet temperatures, pressure, flow, differential pressure and temperature difference

• Data functions: real-time display, storage, export and analysis

Multiple Protection Functions

Multiple safeguards protect the equipment and ensure safe, reliable testing.

1. Dry-running protection (low-flow / interrupted-flow interlock)
2. Over-current protection
3. Short-circuit protection
4. High outlet-temperature protection
5. Over-voltage protection
6. Overload protection
7. Grounding protection
8. Leak detection / liquid leakage protection

Internal Structure



Applications

The INLANX 168kW AC/DC liquid-cooled + air-cooled load cabinet uses a modular hybrid load system with module-level acquisition and system-wide data integration. It provides flexible configuration, programmed and manual control, one-touch loading, comprehensive acquisition and protection. It meets load-testing needs in data centers, power systems, energy storage and charging stations. Electrical connection interfaces can be customized to provide professional, reliable and efficient test solutions.