

# MacroModular™ Data Sheet

Provides up to 1.5MW of liquid cooling in a full modular container



## Powerful, compact and designed for any environment

The LiquidStack MacroModular turnkey solution enables businesses to rapidly deploy high performance computing at the regional edge – enabling diverse IT and multiple workloads in a permanent or semi-permanent location – while capturing the immense energy efficiency, heat rejection and water savings benefits of liquid immersion cooling.

- Supports a broad range of needs, including colocation, telecommunications, high-performance computing, hybrid cloud, enterprise and crypto, as well as retrofitting existing data center infrastructure.
- Addresses AI and advanced cloud computing applications.
- Enables hi-flux chips and over-clocking in the harshest and hottest conditions.
- Facilitates edge computing and hybrid cloud where data is pulled back on-prem or pushed to the edge.

**High Performance Liquid Cooling** Fits 6 x DataTank 48U systems for up to 1.5MW of compute power

**Configurable Resiliency** Optional power module for up to Tier III redundancy

**Integrated Infrastructure** All primary electrical and cooling infrastructure pre-integrated

**Power Usage Effectiveness (PUE)** Ultra-low PUE as low as 1.02 nominal

**Safety** Standard fire detection, lighting, and security with optional fire suppression

**Standard Compliance** UL2755 compliant, customizable for local compliance

**Customer-Specific Standard Configuration** Standardized and configurable per customer needs

The fastest and most reliable way to adopt liquid cooling and to capture its benefits without disrupting existing IT operations.

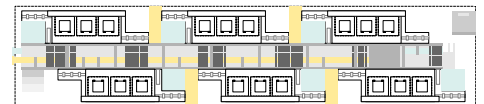
Its energy efficiency and dramatic reduction of water use and space leads to significant TCO savings:

**41% reduction**  
in energy used for cooling

**48% CAPEX reduction**  
versus air-cooling

**69% reduction**  
in Data Center white space

**28% improvement**  
in TCO over 20 years (nominal)



Height **11' (3.4m)** Shipping Weight (ITM) **60,000 lbs (27,200kg)**

Operating Weight **74,000 lbs (33,500kg)** Shipping Weight (Power) **32,000 lbs (14,500kg)**

## MacroModular™ Specifications

SPEC REQUIREMENT	1500KW - TIER 0	1500KW – TIER 1, 750KW – TIER 3
Module Length	60' (18.3m) ITM	60' (18.3m) ITM / 30' (9.1m) power module
Input Disconnect	3000A fused switch, NEMA 3R	2 x 1600A fused switch, NEMA 3R
Generator Disconnect	n/a	2 x 1600A fused switch, NEMA 3R
Backup Generator	n/a	2 x 1500kW (Provided by others)
ATS	n/a	2 x 1600A, ATS, NEMA 3R
Main Distribution Panel	3000A, 480V	2 x 1600A, 480V
UPS	n/a	2 x 750kVA
Battery	n/a	11min EOL, Nickel-Zinc
Transformer (By others)	480-415V, 1000kVA XFMR	2 x 480-415V, 1000kVA XFMR
UPS Distribution Panel	2 x 1000A	2 x 1000A
Immersion Enclosure	Up to six 48U DataTank	Up to six 48U DataTank
Piping	10" schedule 40 headers	2 x 8" schedule 40 headers
OHR Pump	2 x 30-hp	2 x 25-hp for each DataTank Module
OHR	2 x 750kW dry coolers	2 groups of 3 x 250kW dry coolers
A/C	3 ton system	2 x 3 ton systems
Fire Safety	FCAP/VESDA, optional suppression	FCAP/VESDA, optional suppression
BMS/EPMS	Qty 1	Qty 2
Auxiliary Transformer	None	None
Lighting	LED	LED
Security	Keyed Lock	Keyed Lock
Compliance and Safety Rating	UL2755	UL2755
Wind Rating	120mph	120mph
Seismic Rating	C	C
Snow Rating	30psf	30psf
Insulation	R-18 walls and ceiling	R-18 walls and ceiling

## Warranty

- 1-year manufacturer's warranty
- Transferable equipment warranty
- Optional extended warranty and service contracts

To learn more, please visit [liquidstack.com](https://liquidstack.com) or email [info@liquidstack.com](mailto:info@liquidstack.com).

**liquidstack**<sup>o</sup>

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