MicroModular™ Data Sheet

Provides up to 250kW of liquid cooling in a small modular container

Compact, powerful and designed for any environment

The LiquidStack MicroModular turnkey solution enables businesses to rapidly deploy high performance computing at the local edge – serving AI, OTT, advanced cloud computing and low latency workloads – while capturing the immense energy efficiency, heat rejection and water savings benefits of liquid immersion cooling.

- Supports a broad range of needs, including telecommunications, colocation, high-performance computing, hybrid cloud and small enterprise, 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.

- Fits in spaces that are often considered too difficult or too small.

- Facilitates edge computing and hybrid cloud where data is pulled back on-prem or pushed to the edge.

High Performance Liquid Cooling	Fits 1 x DataTank 48U system for up to 250kW of compute power
Configurable Resiliency	Optional expandable UPS power zone
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.
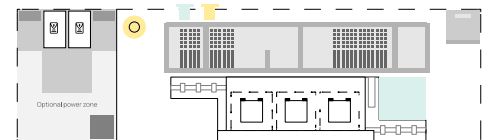
Its improved energy efficiency, elimination of water use and drastic reduction in space leads to significant TCO savings:

41% reduction
in energy used for cooling

44% CAPEX reduction
versus air-cooling

61% reduction
in Data Center white space

22% improvement
in TCO over 20 years (nominal)

Height	Shipping Weight (ITM)
10' (3.0m)	24,000 lbs (10,000kg)

Operating Weight	
28,000 lbs (12,700kg)	

MicroModular™ Specifications

SPEC REQUIREMENT	250KW (N)	250KW – TIER I , 125KW – TIER III
Module Length	22' (6.7m) - w/o power zone	28' (8.5m) - w/ power zone
Input Disconnect	600A fused-disconnect	dual 400A fused-disconnect
Generator Disconnect	n/a	dual 400A fused disconnect
Backup Generator	n/a	250kW (by others)
ATS	n/a	dual 400A
Main Distribution Panel	600A, 480V	dual 400A, 480V
UPS	n/a	dual 140kVA
Battery	5min EOL VRLA, optional lithium titanate	5min EOL VRLA, optional lithium titanate
Transformer	480-400V, 300A XFMR	dual 480-400V, 150A XFMR
UPS Distribution Panel	300A	dual 400A
Immersion Enclosure	1 x 48U DataTank	1 x 48U DataTank
Piping	dual 3" header	dual 3" header
Water pump	3.0hp	dual 1.5hp
OHR	250kW pad-mounted dry cooler, optional chiller	dual 125kW pad-mounted dry cooler, optional chiller
A/C	3.0t wall mount	dual 3.0t wall mount
Fire Safety	detection, optional suppression	detection, optional suppression
BMS/EPMS	qty 1	qty 2
Auxiliary Transformer	50A for lighting and receptacles	50A for lighting and receptacles
Lighting	LED	LED
Security	keyed lock	keyed lock
Compliance and Safety Rating	UL2755, optional local	UL2755, optional local
Wind Rating	120mph	120mph
Seismic Rating	C	C
Snow Rating	30psf	30psf
Insulation	R-18 walls	R-18 walls

Warranty

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

To learn more, please visit **liquidstack.com** or email **info@liquidstack.com**.

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