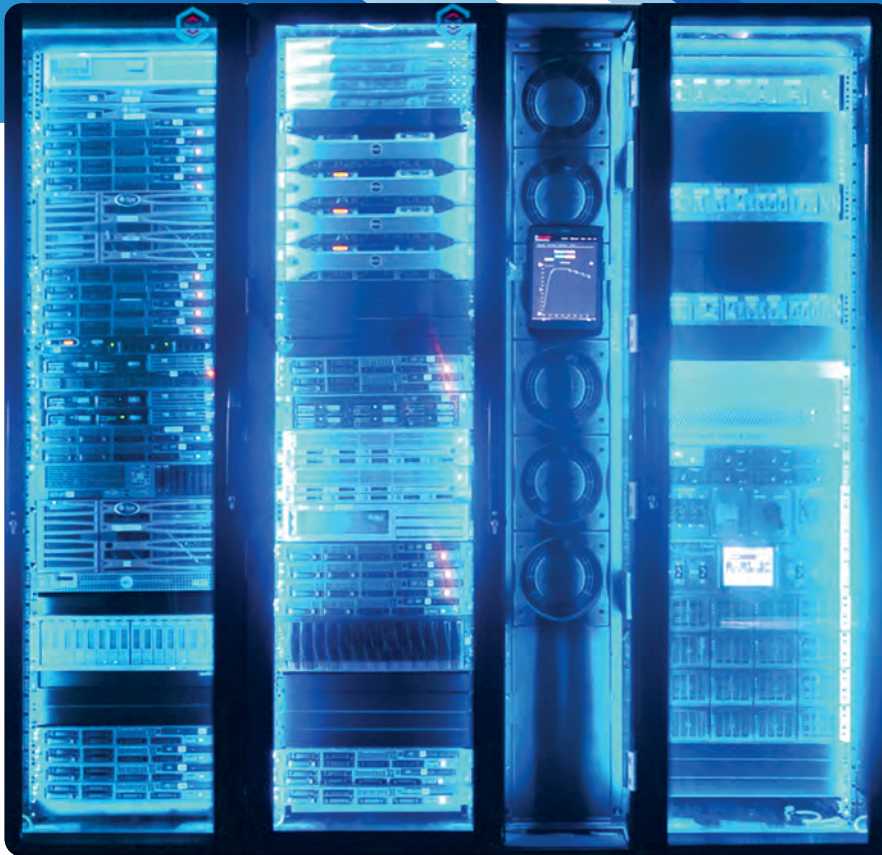


# Makkeen Data Center-in-a-Box



Cooling unit

Inverter

DC Power System

Battery Strings

Redundant Cooling

Rack

Enclosure

Power Distribution

Fire Suppression

Smart Controller

The Makeeen Data Centre is self-contained scalable rack array, combining smart technologies to ensure your networking, server and storage farms are safe, accessible and scalable.

Prefabricated in Canada by CINNOS, and deployed in a scalable array of racks, the unit combines cooling, UPS, environment control, IP55, Uptime Institute Tier I, II, or III, standards with power capacity from 10KW and exploded arrays to 100s of Megawatts, it can be fully customized to a business' requirements and is available in various power densities of 10KW, 30KW and 80KW.

The rack array is a cost effective replacement to old data centre expensive maintenance contract for enterprise customers.



#### EFFICIENCY

Operational  
cost reduction  
of **30%**



#### SPEED

Deployment  
speed increases  
up to **83%**



#### SAVINGS

Deployment  
cost savings of  
up to **43%**



#### PHYSICAL SECURITY

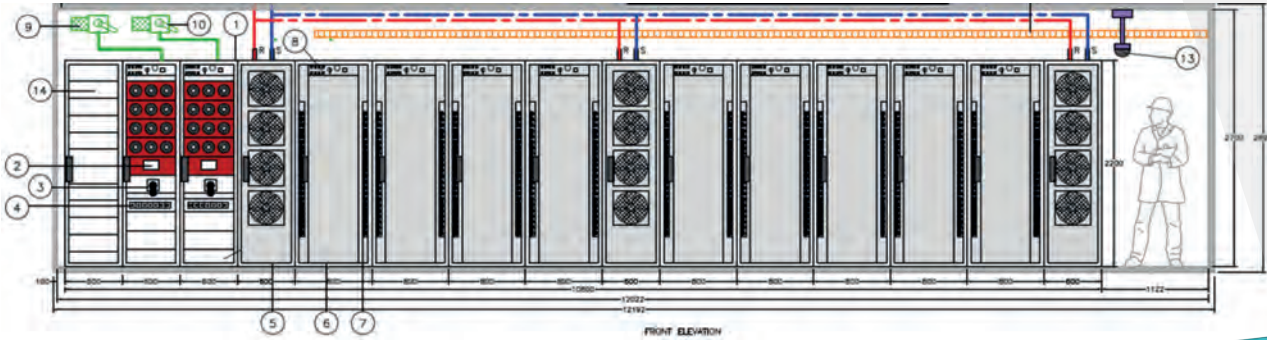
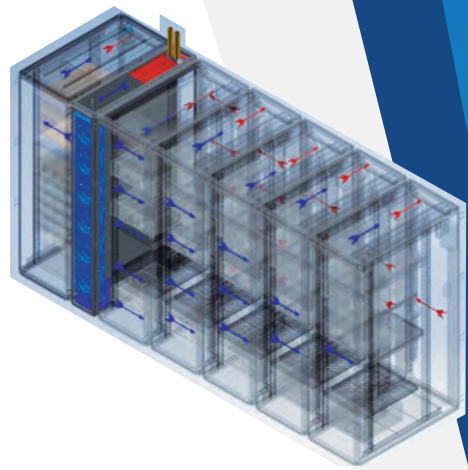


CSA certified By:

**CINNOS**  
MISSION CRITICAL INCORPORATED

Makkeen DC I	2X42 U's Available	Tier II	10 KW
Makkeen DC II	5X42 U's Available	Tier II	30 KW
Makkeen DC III	8X42 U's Available	Tier II	80 KW

**Customize your own solution**



First Digit: Solid Particle Protection		Second Digit: Liquid Ingress Protection	
Level Sized	Effective Against	Level Sized	Effective Against
1	Large surfaces	1	Dripping water
2	Fingers or similar objects	2	Dripping water when tilted at 15°
3	Tools, thick wires, etc.	3	Spraying water
4	Most wires, slender screws, large ants etc.	4	Splashing of water
5	<b>Dust protected</b>	5	<b>Water jets</b>
6	Dust tight	6	Powerful water jets
		7	Immersion, up to 1 m depth
		8	Immersion, 1 m or more depth
		9	Powerful high temperature water jets



DOWN TIME		UP TIME	REDUNDANCY	SOURCE	POWER SOURCE	CONCURRENT MAINTENANCE	FAULT TOLERANCE
Tier 4	0.4 Hours	99.995%	Power, Cooling, Hardware, and Fault Tolerance	System + System	2 + 2 Genset	Yes	Yes
Tier 3	1.6 Hours	99.982%	Power, Cooling & Hardware	System	1+ Genset	Yes	No
Tier 2	22 Hours	99.749%	Power & Cooling	System	1	No	No
Tier 1	28.8 Hours	99.671%	N/A	System	1	No	No



**LET'S TALK**

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