

Containerised Data Centre (CDC)

Prefabricated All-in-one Data Centre



Introduction

LongXing Containerised Data Centre (CDC) is an advanced outdoor and prefabricated all-in-one data centre solution. The solution provides reliable, stable and green environment for IT equipment. It enables easy transportation and fast deployment. Several IT modules, power distribution modules, cooling modules and other functional modules are integrated into one basic single independent operating unit. The solution can be applied to multiple industries and scenarios.

Applications













TELECOM CARRIER

Features & Value

Simple

- Enclosure, power, cooling, firefighting and DCIM system are prefabricated. All facilities are pre-installed and pre-tested before delivery. It minimizes the engineering work and the on-site installation only takes one day.
- Moveable design make relocation easy and deployment flexibly.

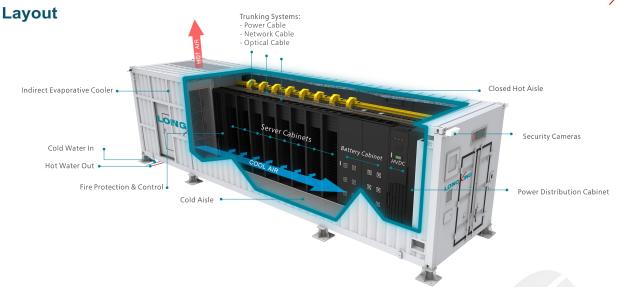
Efficient

- High-efficiency modular UPS, indirect evaporative cooling system, hot aisle containment, enclosure of low heat transfer coefficient, industry-leading PUE.
- O&M anytime and anywhere through online system on web.

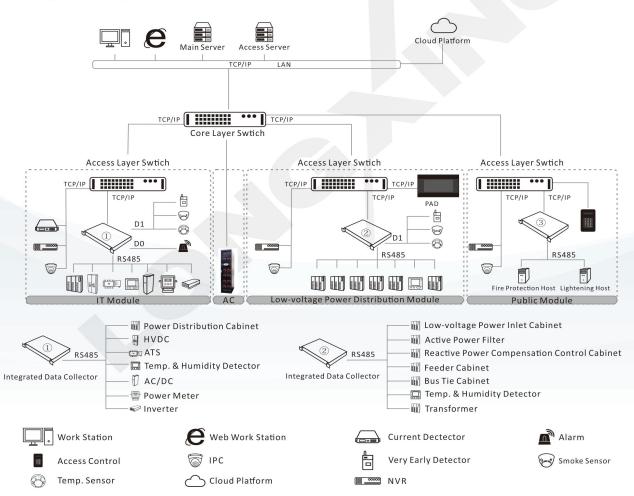
Reliable

- IP55 protection and VIII degrees anti-seismic.
- Durable enclosure, EN 1627~EN 1630 Class 3 anti-theft, multiple access control and video surveillance protect the asset.





Management System





Specifications

System	Sub-item	Containersied Data Centre	
	Total IT load	≤ 96kW	≤ 120kW
Power	Power density per rack	≤ 10kW	≤ 13.2kW
	Input mode	380V mains electricity input	
	input mode	240V DC input from HVDC cabinet	
	Integrated HVDC cabinet	2500×600×1200	
	size (H×W×D)mm	2500,000,1200	
	HVDCcapacity	120kVA	
	Number of rectifier module	7+1	
	BAT backup time	20min under full loads	
	PDU	A route: IEC320 11×C13+11×C13+11×C13	
		B route: IEC320 16×C13+16×C13	
	Surge protection	Level-3	
Rack	Rack capacity	8×52U IT rack	
	Rack distribution	8×10kW/rack	8×13.2kW/rack
	Size (H×W×D) mm	2500×600×1200	
Cooling	A/C type	Indirect evaporative cooling	
	Sensible cooling capacity	120kW	
	Coolant	R410A	
	Fan type	EC fan	
	Compressor	2/1 variable-frequency+1 fixed-frequency	
	Temp. range	+18~+27°C	
	Humidity range	20%~80%	
	Hot/cold aisle	Hot aisle containment	
Fire protection	Auto fire protection system	Automatic fifire detection & suppression	
		system c/w emergency release function	
	Alarm		ing and detection, support
		sound and light ala	rm
	Gas	HFC-227ea	
Monitoring	Module access	Password	
	Rack access	Customization	
	Monitoring management	Real-time monitoring of temperature and	
		humidity control, fifire control, access control	
		and cooling system	
	In-module display	PAD Web	
	Remote O&M	11121	
Enclosure	External size (H×W×D)mm	3200×3000×12192 (Typical) Hot aisle of 650-700mm; cold aisle of 850-900mm	
Protection	Aisle width	IP55	
	Dustproof and waterproof Anti-seismic		ental acceleration, 0.25 a.
	Anti-seismic	VIII degrees (horizontal acceleration: 0.25g; vertical acceleration: 0.125g)	
	Anti-theft	Meet requirements of EN 1627~EN	
	Anti-theit	1630 Class 3	
	Filth rating	IV (climb: 3.1cm/kV, by maximum operating	
	Thurtaung	voltage meter)	
Operating Environment	External humidity (RH)	5% ~100%	
	Internal humidity (RH)	20% ~80%	
	External temp	-40°C~+55°C	
	Internal temp	Cold aisle temp: +18°C~+27°C	
	Altitude	≤ 1000m	
	Solar radiation intensity	1120 W/m ²	

VERSION: CDC291019