







Container Data Center Solutions



Rising BuildTech America Inc.

Add: 2nd Floor, Building 1, Rising Xinghui, No. 720 Shisha Road East, Baiyun District, Guangzhou, Guangdong Province, China

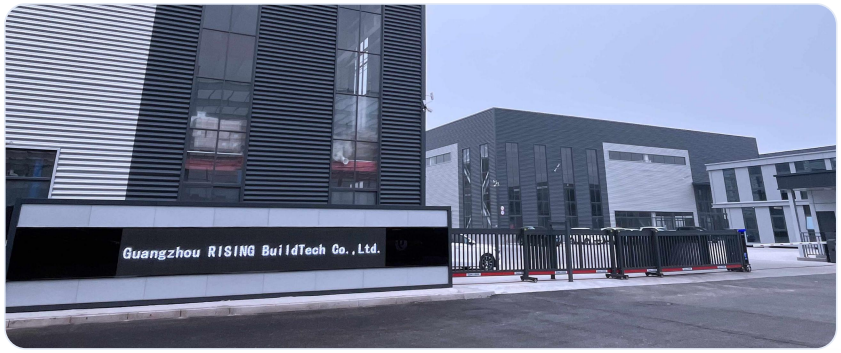
Web: www.risingbuildtech.com

RISING BuildTech

PART 1

Company Profile
公司介绍

Company Profile 公司介绍





公司简介

正升科技美国股份公司是一家专注于高端模块化建筑系统研发、设计、制造、销售与服务的规模化企业。公司成立于美国加州，总部坐落于广州，生产基地位于佛山，拥有现代化厂房及展厅4万余平方米，公司依托集团公司——**正升集团**，致力于为全球数据中心客户提供创新、快速、绿色的集装箱数据中心整体解决方案。

RISING BuildTech

Rising BuildTech America Inc. is a large scale enterprise specializing in the R&D, design, manufacturing, sales and services of high-end modular building systems. Founded in Amercian california,Headquartered in Guangzhou with production bases in Foshan, the company owns modern workshops and exhibition halls covering over 40,000 square meters. Backed by its parent group, **Rising Group**, we are committed to delivering innovative, efficient and eco-friendly turnkey solutions for golbal container Data Center customers.

Parent company Guangzhou Rising BuildTech is a container data center integrated factory that has passed ISO 9001 quality management system, ISO14001 environmental management system certification, CE certification, and classification society CSC certification.

Container data centers represent a highly flexible, efficient and scalable solution for modern IT infrastructure construction, designed to address the pain points of traditional data centers such as long construction cycles, high investment costs and poor adaptability to business changes. All core components including cabinet systems, power distribution, cooling, fire protection, monitoring and cabling are pre-integrated and pre-tested in a factory-controlled environment, forming standardized, independent modular units that can be quickly transported, hoisted and assembled on site.

Advantages:

- Rapid Deployment
- High Scalability
- Factory Pre-tested
- Space Efficient
- Low Energy Consumption
- Intelligent Monitoring
- Cost-effective







RISING BuildTech

40000㎡
生产基地总面积
Total Area of Production Bases

20year
装配式行业经验
Prefabricated Industry Experience

1400+
服务客户数量
Number of Served Customers

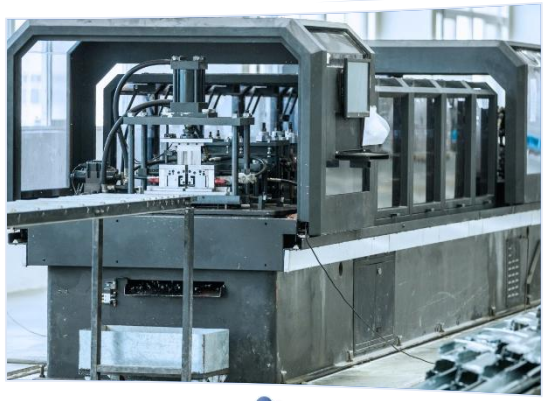
1100+
全球落地项目
Global Implement-ed Projects

Workshop 车间一角

RISING BuildTech









Quality Commitment

严格执行国家标准和行业规范，确保产品与工程质量。

Construction period commitment

依托模块化建造优势，确保项目高效推进，按约定工期交付。

Service Commitment

提供从前期咨询、方案设计到后期维护的全周期服务，7x24小时响应支持。

Collaborative commitment

以开放、协同的态度，全力配合贵司及设计单位，确保项目完美落地。

RISING BuildTech

COMPANY PROFILE

设备简介

设备介绍 Equipment introduction



Side panel Welding



Final assemble station



Automatic Welding



Column Auto Welding

RISING BuildTech

COMPANY PROFILE

设备简介

设备介绍 Equipment introduction



6600W Laser cutting



12000W Laser cutting Machine



Bigger CNC Bending



5 CNC Bending

RISING BuildTech

COMPANY PROFILE

百格测试

附着力试验 Adhesion test



Equipment



Testing



Testing



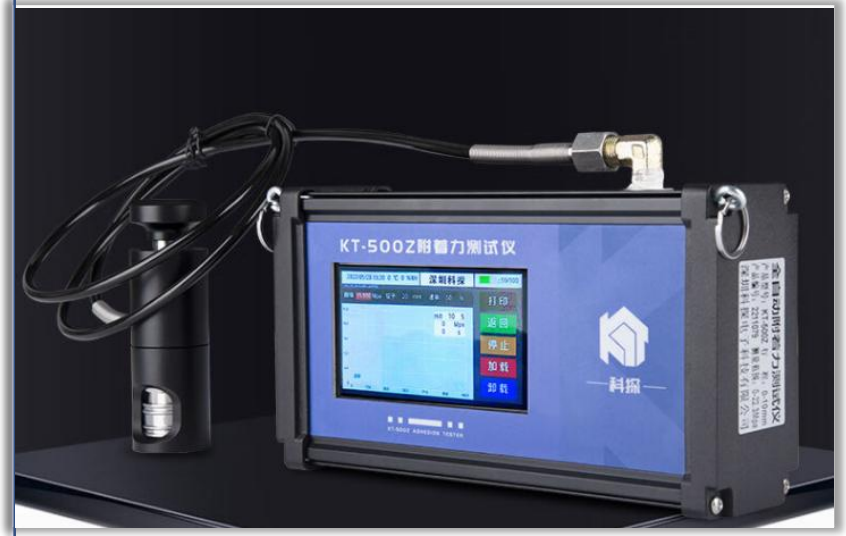
Final Result

RISING BuildTech

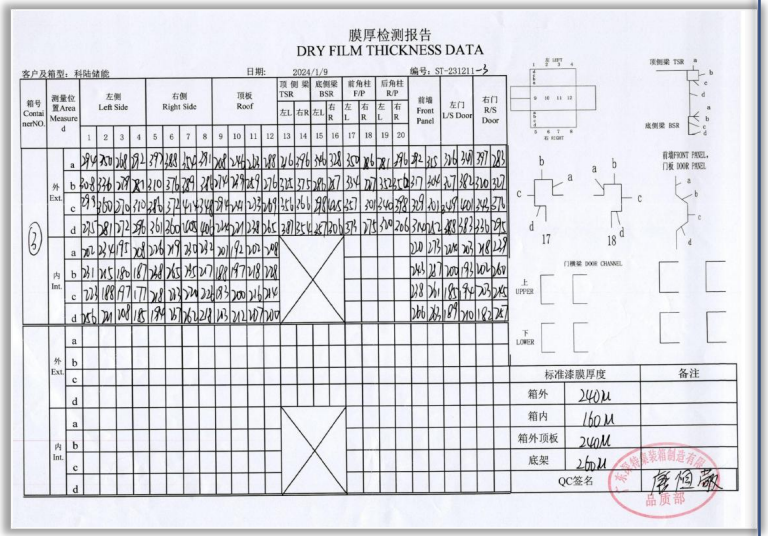
COMPANY PROFILE

膜厚测试

膜厚测试 Film thickness test



Equipment



膜厚检测报告
DRY FILM THICKNESS DATA

客户及箱型：科陆储能　日期：2024/1/9　编号：ST-231211-5

箱号 Container NO.	测量位置 Area Measured	左侧 Left Side			右侧 Right Side				顶板 Roof				顶侧梁 TSR 左L	顶侧梁 TSR 右R	底侧梁 BSR 左L	底侧梁 BSR 右R	前角柱 F/P 左L	前角柱 F/P 右R	后角柱 R/P 左L	后角柱 R/P 右R	前墙 Front Panel	左门 L/S Door	右门 R/S Door
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
②	外 Ext.	a	294	270	268	273	288	276	271	268	268	276	288	288	296	296	328	328	309	296	296	296	305	316	297	283
		b	283	276	266	271	281	271	266	263	263	271	283	283	276	276	308	308	287	276	276	276	285	296	277	263
		c	291	280	270	276	286	276	271	268	268	276	288	288	276	276	308	308	287	276	276	276	285	296	277	263
		d	215	208	202	206	214	206	202	200	200	206	214	214	208	208	232	232	216	208	208	208	214	222	208	198
	内 Int.	a	261	252	244	249	258	249	244	241	241	249	258	258	252	252	280	280	263	252	252	252	261	270	253	241
		b	241	232	224	229	237	229	224	221	221	229	237	237	232	232	258	258	241	232	232	232	241	249	233	221
		c	224	216	208	213	221	213	208	205	205	213	221	221	216	216	240	240	224	216	216	216	224	232	217	205
		d	196	189	182	187	194	187	182	180	180	187	194	194	189	189	210	210	196	189	189	189	196	203	190	180
	外 Ext.	a																								
		b																								
		c																								
		d																								
	内 Int.	a																								
		b																								
		c																								
		d																								

标准漆膜厚度		备注
箱外	240μ	
箱内	160μ	
箱外顶板	240μ	
底架	260μ	
QC签名		

Test Result

RISING BuildTech

COMPANY PROFILE

防水检验

防水检验 Waterproof inspection



Top Water storage test



Water Spraying equipment



Water Spraying equipment



Testing

RISING BuildTech

Transportation

运输

运输　transport



Package and Transportaion

Qualification Certificates 相关资质证件











Qualification Certificates 相关资质证件



證　書

广东正升建筑有限公司：

你单位承建的正升星荟商住小区（二期）工程荣获2022～2023年度中国建设工程鲁班奖(国家优质工程)。

特发此证。

二〇二二年十一月



营业执照

（副本）

编号：S1112025128226G(1-1)

统一社会信用代码 91440111MAK07J4A04

名　称 广州正升科技有限公司

类　型 有限责任公司(外商投资企业与内资合资)

法定代表人 郭红涛

经营范围 科技推广和应用服务业（具体经营项目请登录国家企业信用信息公示系统查询。网址：http://www.gsxt.gov.cn/。依法须经批准的项目，经相关部门批准后方可开展经营活动。）

注册资本 壹仟万元（人民币）

成立日期 2025年11月03日

住　所 广州市白云区石门街石沙公路720号之一自编2#楼1层119-7房

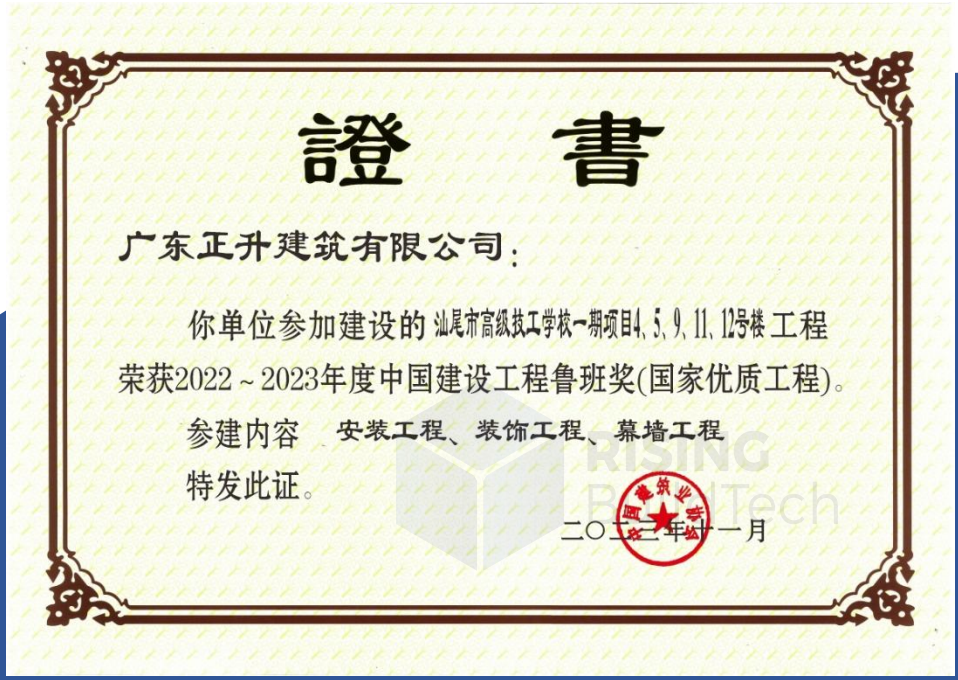
登记机关 广州市白云区市场监督管理局

2026 年 05 月 09 日

国家企业信用信息公示系统网址：http://www.gsxt.gov.cn

市场主体应当于每年1月1日至6月30日通过国家企业信用信息公示系统报送公示年度报告

国家市场监督管理总局监制



證　書

广东正升建筑有限公司：

你单位参加建设的汕尾市高级技工学校一期项目4、5、9、11、12号楼工程荣获2022～2023年度中国建设工程鲁班奖(国家优质工程)。

参建内容　安装工程、装饰工程、幕墙工程

特发此证。

二〇二二年十一月



中鉴认证有限责任公司

质量管理体系认证证书

NO：00726Q01000R001

兹证明

广州正升科技有限公司

注册地址：广州市白云区石门街石沙公路720号之一自编2#楼1层119-7房

统一社会信用代码：91440111MAK07J4A04

质量管理体系符合

《质量管理体系 要求》GB/T 19001-2016/ISO 9001:2015 标准

该质量管理体系覆盖范围

广州市白云区石门街石沙公路720号1号楼2楼

模块化房屋、集装箱式建筑单元的销售及相关技术支持与售后服务

颁证日期：2026年04月27日

本证书有效期自2026年04月27日至2029年04月26日

获证组织必须定期接受监督审核并经审核合格此证书方继续有效

IAF　CNAS　中国认可 国际互认 管理体系 MANAGEMENT SYSTEM CNAS C007-M

公司代表（签名）

本证书信息可在国家认证认可监督管理委员会官方网站（www.cnca.gov.cn）上查询

证书的续及适用性可向认证机构查询，网址：www.gzcc.org.cn 或致电：020-66090922。

中国广东省广州市广州大道中237号华普大厦4楼(510600) 中鉴认证有限责任公司



中鉴认证有限责任公司

环境管理体系认证证书

NO：00726E00725R001

兹证明

广州正升科技有限公司

注册地址：广州市白云区石门街石沙公路720号之一自编2#楼1层119-7房

统一社会信用代码：91440111MAK07J4A04

环境管理体系符合

《环境管理体系 要求及使用指南》

GB/T 24001-2016/ISO14001:2015 标准

该环境管理体系覆盖范围

广州市白云区石门街石沙公路720号1号楼2楼

模块化房屋、集装箱式建筑单元的销售及相关技术支持与售后服务及相关管理活动

颁证日期：2026年04月27日

本证书有效期自2026年04月27日至2029年04月26日

获证组织必须定期接受监督审核并经审核合格此证书方继续有效

IAF　CNAS　中国认可 国际互认 管理体系 MANAGEMENT SYSTEM CNAS C007-M

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中国广东省广州市广州大道中237号华普大厦4楼(510600) 中鉴认证有限责任公司

Qualification Certificates 相关资质证件

广州正升科技有限公司（外币）收款账号

公司名称:广州正升科技有限公司

公司地址:广州市白云区石门街石沙公路720号之一自编2#楼1层119-7房

公司税号:91440111MAK07J4A04

公司英文名称 BENEFICIARY NAME: Guangzhou Rising BuildTech Co.,Ltd.

公司英文地址 ADD: Room 119-7, 1st Floor, Building 2, No. 720-1 S
Road, Shimen Street, Baiyun District, Guangzhou City

收款银行名称 BENEFICIARY'S BANK: AGRICULTURAL BANK OF CHINA, GUANG
BRANCH, GUANGZHOU BAIYUN SUB-BRANC

收款银行地址 ADDRESS:6 F,K BUILDING,CHUNNUAN GARDEN,JICHANG XI, LEJ
BAIYUN DIST. GUANGZHOU, CHINA

（SWIFT CODE: ABOCCNBJ190 ）

（CNAPS：103581007035）

地址及电话:广州市白云区石门街石沙公路720号之一自编2#楼1层119-7房 13311

（美元）开户行及账号:中国农业银行股份有限公司广州白云湖数字科技城支行
44068414040000392

（英镑）开户行及账号:中国农业银行股份有限公司广州白云湖数字科技城支行
44068412040000040

（日元）开户行及账号:中国农业银行股份有限公司广州白云湖数字科技城支行
44068427040000030

（加拿大元）开户行及账号:中国农业银行股份有限公司广州白云湖数字科技城支行
44068428040000012

（欧元）开户行及账号:中国农业银行股份有限公司广州白云湖数字科技城支行
44068438040000144

（要求使用 17 位标准数字帐号，号中不出现其他符号或空格）

汇款附言

DETAILS OF PAYMENT: GOODS

广州正升科技

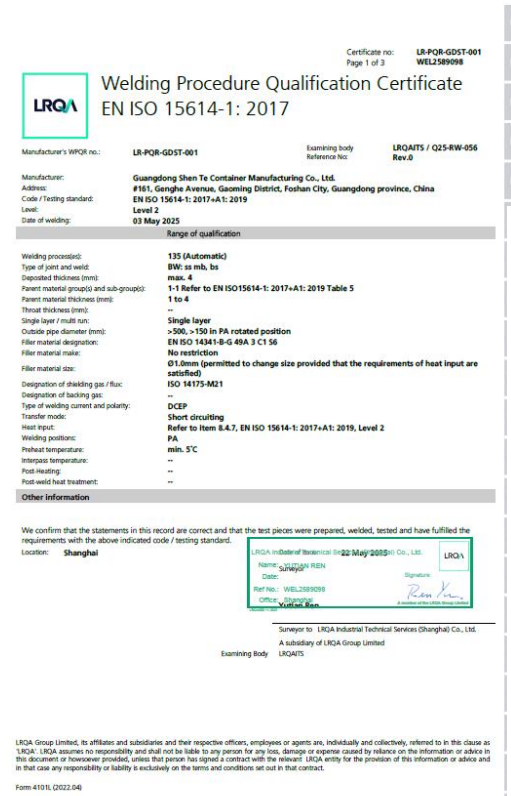
编号：12561 号

报关单位备案证明

统一社会信用代码	91440111MAK07J4A04
名称	广州正升科技有限公司
所在地海关	广州车站海关
经营类别	进出口货物收发货人
查询截止日期	2026 年 05 月 27 日

注：此证明只能反映出具证明时报关单位备案情况，实时备案情况请通过“中国国际贸易单一窗口”或“互联网+海关”平台查询。

说明：此证明只能反映出具证明时报关单位备案情况，实时备案情况请通过“中国国际贸易单一窗口”或“互联网+海关”平台（网址：http://credit.customs.gov.cn）查询或通过微信、支付宝扫描下方二维码查询。



Certificate no: LR-PQR-GDST-001
Page 1 of 3 WEL2589098

LRQA

Welding Procedure Qualification Certificate
EN ISO 15614-1: 2017

Manufacturer's WPQR no.: LR-PQR-GDST-001
Examining body Reference No: LRQAITS / Q25-RW-056 Rev.0

Manufacturer: Guangdong Shen Te Container Manufacturing Co., Ltd.
Address: #161, Genghe Avenue, Gaoming District, Foshan City, Guangdong province, China
Code / Testing standard: EN ISO 15614-1: 2017+A1: 2019
Level: Level 2
Date of welding: 03 May 2025

Range of qualification

Welding process(es):	135 (Automatic)
Type of joint and weld:	BW: ss mb, bs
Deposited thickness (mm):	max. 4
Parent material group(s) and sub-group(s):	1-1 Refer to EN ISO15614-1: 2017+A1: 2019 Table 5
Parent material thickness (mm):	1 to 4
Throat thickness (mm):	--
Single layer / multi run:	Single layer
Outside pipe diameter (mm):	>500, >150 in PA rotated position
Filler material designation:	EN ISO 14341-B-G 49A 3 C1 S6
Filler material make:	No restriction
Filler material size:	Ø1.0mm (permitted to change size provided that the requirements of heat input are satisfied)
Designation of shielding gas / flux:	ISO 14175-M21
Designation of backing gas:	--
Type of welding current and polarity:	DCEP
Transfer mode:	Short circuiting
Heat input:	Refer to Item 8.4.7, EN ISO 15614-1: 2017+A1: 2019, Level 2
Welding positions:	PA
Preheat temperature:	min. 5°C
Interpass temperature:	--
Post-Heating:	--
Post-weld heat treatment:	--

Other information

We confirm that the statements in this record are correct and that the test pieces were prepared, welded, tested and have fulfilled the requirements with the above indicated code / testing standard.

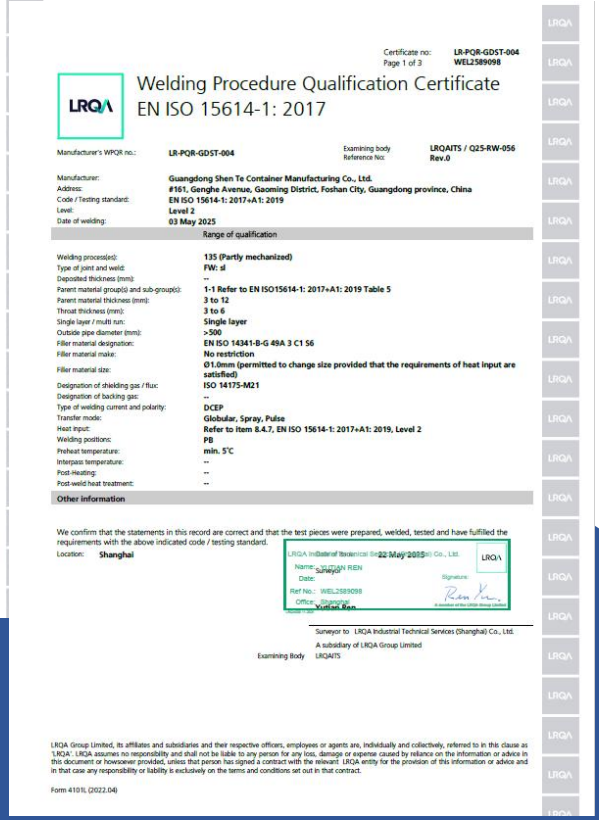
Location: Shanghai 22 May 2025

LRQA Industrial Technical Services (Shanghai) Co., Ltd.
Name: SHUYAN REN
Date:
Signature:
Ref No.: WEL2589098
Office: Shanghai
Yushan Ren

Surveyor to LRQA Industrial Technical Services (Shanghai) Co., Ltd.
A subsidiary of LRQA Group Limited
Examining Body LRQAITS

LRQA Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'LRQA'. LRQA assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant LRQA entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Form 4101L (2022.04)



Certificate no: LR-PQR-GDST-004
Page 1 of 3 WEL2589098

LRQA

Welding Procedure Qualification Certificate
EN ISO 15614-1: 2017

Manufacturer's WPQR no.: LR-PQR-GDST-004
Examining body Reference No: LRQAITS / Q25-RW-056 Rev.0

Manufacturer: Guangdong Shen Te Container Manufacturing Co., Ltd.
Address: #161, Genghe Avenue, Gaoming District, Foshan City, Guangdong province, China
Code / Testing standard: EN ISO 15614-1: 2017+A1: 2019
Level: Level 2
Date of welding: 03 May 2025

Range of qualification

Welding process(es):	135 (Partly mechanized)
Type of joint and weld:	FW: sf
Deposited thickness (mm):	--
Parent material group(s) and sub-group(s):	1-1 Refer to EN ISO15614-1: 2017+A1: 2019 Table 5
Parent material thickness (mm):	3 to 12
Throat thickness (mm):	3 to 6
Single layer / multi run:	Single layer
Outside pipe diameter (mm):	>500
Filler material designation:	EN ISO 14341-B-G 49A 3 C1 S6
Filler material make:	No restriction
Filler material size:	Ø1.0mm (permitted to change size provided that the requirements of heat input are satisfied)
Designation of shielding gas / flux:	ISO 14175-M21
Designation of backing gas:	--
Type of welding current and polarity:	DCEP
Transfer mode:	Globular, Spray, Pulse
Heat input:	Refer to Item 8.4.7, EN ISO 15614-1: 2017+A1: 2019, Level 2
Welding positions:	PB
Preheat temperature:	min. 5°C
Interpass temperature:	--
Post-Heating:	--
Post-weld heat treatment:	--

Other information

We confirm that the statements in this record are correct and that the test pieces were prepared, welded, tested and have fulfilled the requirements with the above indicated code / testing standard.

Location: Shanghai 22 May 2025

LRQA Industrial Technical Services (Shanghai) Co., Ltd.
Name: SHUYAN REN
Date:
Signature:
Ref No.: WEL2589098
Office: Shanghai
Yushan Ren

Surveyor to LRQA Industrial Technical Services (Shanghai) Co., Ltd.
A subsidiary of LRQA Group Limited
Examining Body LRQAITS

LRQA Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'LRQA'. LRQA assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant LRQA entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Form 4101L (2022.04)

American Standard Certification

CERTIFICATE OF COMPLIANCE

Certificate Number 20170711-E305300
Report Reference E305300-20170711
Issue Date 2017-JULY-11

Issued to: CUMMINS GENERATOR TECHNOLOGIES
BARNACK RD
PO BOX 17
STAMFORD
PE9 2NB UNITED KINGDOM

This is to certify that representative samples of GENERATORS
Model S6L1, followed by S, G or D, followed by C through H, followed by 4, followed by 1 or 2.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 1004-1, Rotating Electrical Machines – General Requirements
UL 1004-4, Electric Generators
CSA C22.2 No. 100, Motors and Generators

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
2026 MODEL YEAR
CERTIFICATE OF CONFORMITY
WITH THE CLEAN AIR ACT

OFFICE OF TRANSPORTATION AND AIR QUALITY
ANN ARBOR, MICHIGAN 48105

Certificate Issued To: Societe Internationale des Moteurs-Baudouin
(U.S. Manufacturer or Importer)
Certificate Number: TMRBL65.4EMS-003

Effective Date: 12/15/2025
Expiration Date: 12/31/2026

Byron J. Bunker, Division Director
Compliance Division

Issue Date: 12/15/2025
Revision Date: N/A

Model Year: 2026
Manufacturer Type: Original Engine Manufacturer
Engine Family: TMRBL65.4EMS

Mobile/Stationary Indicator: Stationary
Emissions Power Category: kW>560
Fuel Type: Diesel
After Treatment Devices: No After Treatment Devices Installed
Non-after Treatment Devices: Electronic Control

Pursuant to Section 111 and Section 213 of the Clean Air Act (42 U.S.C. sections 7411 and 7547) and 40 CFR Part 60, and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following engines, by engine family, more fully described in the documentation required by 40 CFR Part 60 and produced in the stated model year.

This certificate of conformity covers only those new compression-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Part 60 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 60.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 1068 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Part 60. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void *ab initio* for other reasons specified in 40 CFR Part 60.

This certificate does not cover engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.

The actual engine power may lie outside the limits of the Emissions Power Category shown above. See the certificate application for details.

American Standard Certification

UL Product iQ®

BAZR2.MH65343 - Batteries, Standby - Component

Batteries, Standby - Component

Lianzheng Electronic (Shenzhen) Co Ltd MH65343
4 LIUFANG RD
BLK 67, BAO'AN
SHENZHEN, GUANGDONG 518132 China

Model	Rate Capacity, Ah	Rate Voltage, Vdc	Max Discharge Rate Amps	Hr	Max Charge Rate Amps	Hr	Oper. Range/ Max Ambient °C	Battery Case Flame Rating	Enclosure Test Schedule	High-rate Discharge Test Current Amps
Sealed cell, lead acid batteries with pressure release vents										
C12-100	100	12	-	-	-	-	-	V-0	-	-
C12-120	120	12	-	-	-	-	-	V-0	-	-
C12-150	150	12	-	-	-	-	-	V-0	-	-
C12-18	18	12	-	-	-	-	-	V-0	-	-
C12-200	200	12	-	-	-	-	-	V-0	-	-
C12-225	225	12	-	-	-	-	-	V-0	-	-
C12-26	26	12	-	-	-	-	-	V-0	-	-
C12-38	38	12	-	-	-	-	-	V-0	-	-
C12-65	65	12	-	-	-	-	-	V-0	-	-
PH12-100	100	12	-	-	-	-	-	V-0	-	-
PH12-120	120	12	-	-	-	-	-	V-0	-	-
PH12-150	150	12	-	-	-	-	-	V-0	-	-
PH12-18	18	12	-	-	-	-	-	V-0	-	-
PH12-200	200	12	-	-	-	-	-	V-0	-	-

SiT

Supplier's Declaration of Conformity

Certificate No.: SIT251219220102F

Product Name	:	Rack-mounted CDU
Model No.	:	150KWCDU, 130KWCDU, 100KWCDU, 80KWCDU, 65KWCDU, 55KWCDU, 45KWCDU, 35KWCDU, 20KWCDU
Trade Name	:	N/A
Applicant	:	Shenzhen Lianli Liquid Cooling Equipment Technology Co., Ltd.
Address	:	Room 1216, Building 3, Futong Haizhi Technology Park, No.17 Bulan Road, Xialilang Community, Nanwan Street, Longgang District, Shenzhen
Manufacturer	:	Shenzhen Lianli Liquid Cooling Equipment Technology Co., Ltd.
Address	:	Room 1216, Building 3, Futong Haizhi Technology Park, No.17 Bulan Road, Xialilang Community, Nanwan Street, Longgang District, Shenzhen
FCC Rules	:	FCC Part 15 Subpart B
Report No.	:	SIT251219220102FR

Based upon the referenced test report(s), sample of the above product have been found to comply with the FCC rules listed on this certificate.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FC

SHENZHEN SIT TESTING TECHNOLOGY LTD APPROVED

Authorized Signer: _____
Department Manager

Date: December 26, 2025

Shenzhen SIT Testing Technology Co., Ltd.
Email:Info@sitcert.com Tel: (86)-0755-29173399 Fax: (86)-0755-29179933 Http://www.sit-cert.com

Key Advantages & Expertise 核心优势与能力

RISING BuildTech

Full-industry Chain Services
全产业链服务

集研发、设计、生产、建造、服务于一体，提供一站式交钥匙服务。

Integrating R&D, design, production, construction and services, we deliver one-stop turnkey solutions.

Certifications & Credentials Endorsement
证书认证背书

ISO9001质量管理体系、ISO14001环境管理体系、CE认证

ISO 9001 QMS, ISO 14001 EMS, CE Certification

Extensive project experience
丰富项目经验

成功交付涵盖精品民宿、度假酒店、特色营地、服务中心等海内外文旅相关项目。

Successfully completed domestic and overseas cultural tourism projects such as boutique homestays, resort hotels, characteristic camps and service centers.

Expert Team
专业团队

拥有经验丰富的建筑设计师、结构工程师、项目经理和施工管理团队。

Our team includes seasoned architectural designers, structural engineers, project managers and construction management staff.



Strong research and development capabilities

RISING BuildTech

PART 2

Product Introduction
产品介绍

RISING BuildTech

Product Introduction

产品简介

数据中心集装箱 Data Center container



Edge Computing Center



Data center container



Data Center container



Cloud Computing Center

SPECIAL CONTAINER

Power Generator Containers

Power generator containers are integrated with generators to form mobile power stations.
The designed load capacity ranges from 20 tons to 60 tons.
Mechanical tests are conducted to ensure suitability for the installation, transportation, maintenance, and ventilation of large generator equipment.











SPECIAL CONTAINER

Other Equipment Containers



Hazardous Storage Container



Electrical Container



Oil Unloading Platform Container



Water Tank



Diesel Container



Storage Container

Container Data Center

Container data centers are modular, factory-prefabricated infrastructure products designed for rapid on-site deployment. These container data centers integrate essential data center facility components—such as IT racks, power distribution, HVAC, fire suppression, security, DCIM and PDS—partially or fully within a single contain- er (available in 20ft, 40ft or custom-sized units). This creates a highly integrated, flexible and scalable data center capable of serving various functions. Depending on the type, a container data center can operate as a all-in-one unit or be scaled up into large clusters through a "building block" approach, allowing for the flexible construction of data centers of any size.





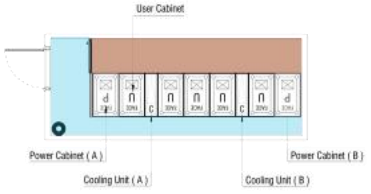




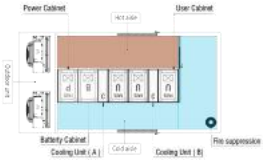
All-in-one Container Product

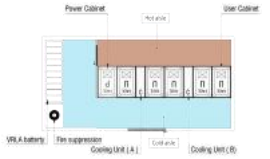
Any all-in-one container data center product from ZT is capable of fulfilling all the functions of a data center. We are dedicated to providing attentive service, making it effortless and worry-free for our customers.

20ft Container Data Center Layout

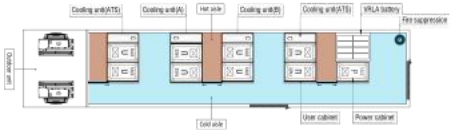


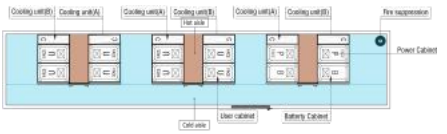
20ft Plus Container Data Center Layout





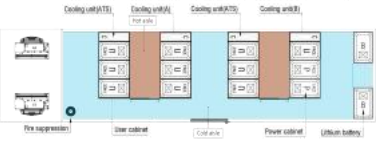
40ft Containerized Data Center Layout





40ft Plus Containerized Data Center Layout





Container Data Center

Clustered container solutions

With the rapid development of the data center industry driven by the surge in the internet, big data and cloud comput- ing, all emerging information technologies ultimately require support at the facility level to be effectively implemented. Through transformative changes in the data center field, these technologies can be widely adopted. Leveraging 20 years of experience in data center technology, ZT offers various facility solutions for container data center clustering, with factory modular prefabrication and fast on-site deployment. Typical clustering methods include:

I Stacked Cluster of All-in-one Products

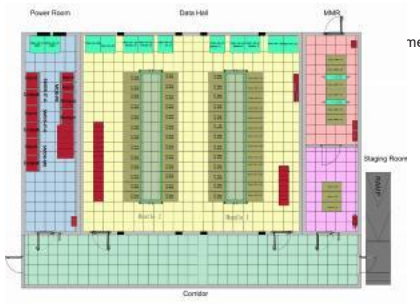
ZT offers various specifications for single container data center products, including 20ft, 40ft and custom non-standard containers. Each single unit product can fulfill all the functions of a data center. By stacking these all-in-one units, each container becomes a distributed node in the overall cluster data center. If one container experiences a fault, it does not affect the operation of other containers, ensuring high fault tolerance and reliability.

II Stacked clusters of containers with different functional modules

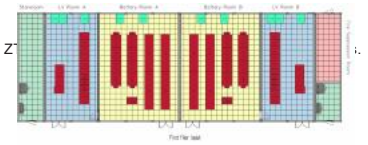
The clustered container data center is treated as a whole, with units divided into different functional modules. Each module is assigned specific tasks and configured with redundancy and fault tolerance before being stacked into a cluster. According to GB50174 Data Center Design Specifications, the modules are categorized into Auxiliary Area Modules, Power Area Modules, Cooling Area Modules, and Equipment Area Modules.

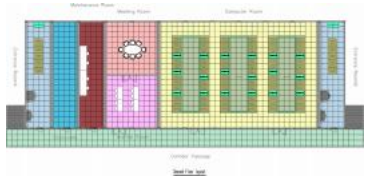
· **Auxiliary Area Modules:** Stairs, administrative offices, cable shafts, strong and weak current shafts, air ducts, spare parts rooms, and central control cabinets.
· **Power Area Modules:** Battery rooms, distribution rooms, energy storage boxes, transformer boxes, and diesel generator rooms.

· **Cooling Area Modules:** Cooling boxes, thermal storage boxes, condensing boxes, and fresh air boxes.
· **Equipment Area Modules:** Server boxes, storage boxes, and network equipment boxes.



nents, ZT





Application Scenarios

Suitable for various application scenarios including e-government, cloud computing, IDC (Internet Data Centers), enterprise use, marine scientific research, oil and gas exploration, military operations, edge computing, smart substa- tions, super computing centers, research centers, IOT node data centers and more.

Product Features

· Simple site requirements; deploy and expand as needed

· Activate by connecting network, power and water after site prep

· Factory-prefabricated, factory-installed and full life cycle service

· Custom core solutions for power distribution and HVAC

High Reliability, Density, and Security

· Reliable power distribution with N+1 redundancy and online cooling

· High-density power cabinets

· Access door, video surveillance and IP55 enclosures for data security

· Seismic resistance up to level 9

· 25-year lifespan

Green and Energy-Efficient

· Efficient UPS, energy-saving HVAC and airflow management

· Energy storage for peak shaving

· Optimized water and electricity cost control

· PUE below 1.3

Low Total Cost of Ownership (TCO)

· Custom factory production with high quality and multi-layer stacking.

· Reduced costs compared to traditional data centers.

· Intelligent monitoring with remote alerts and no dedicated staff needed.

Monitoring System





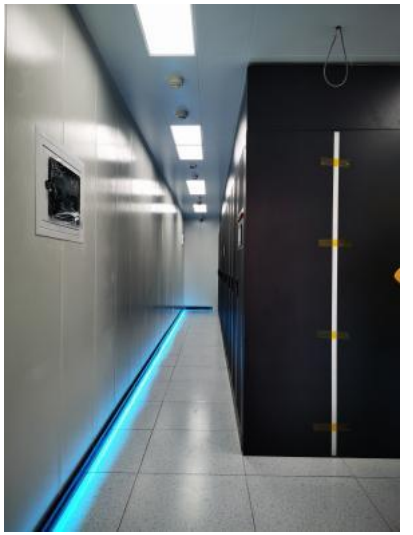





Successful Case



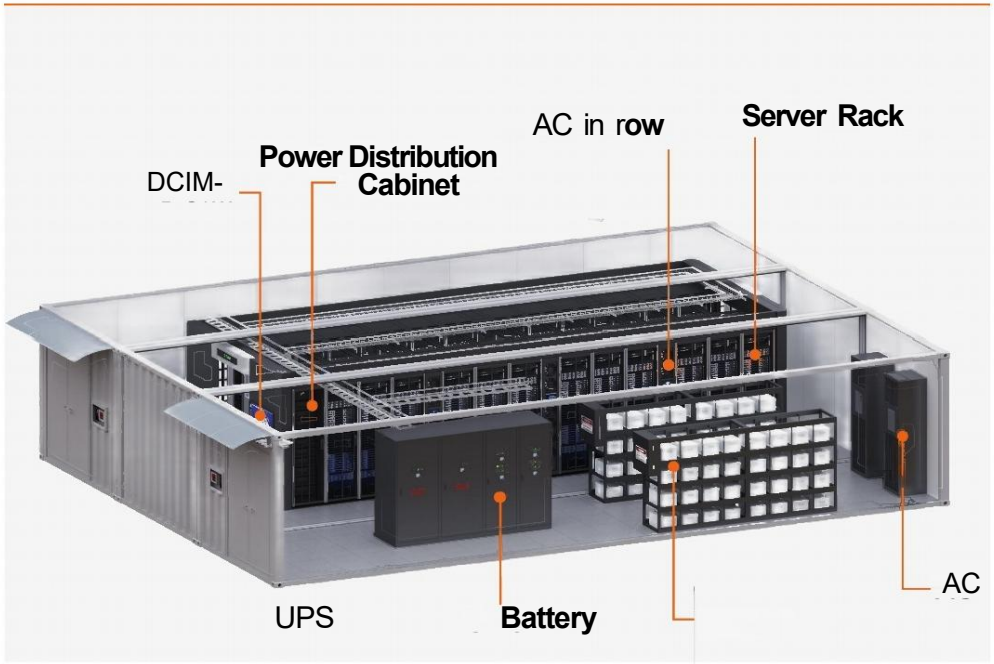




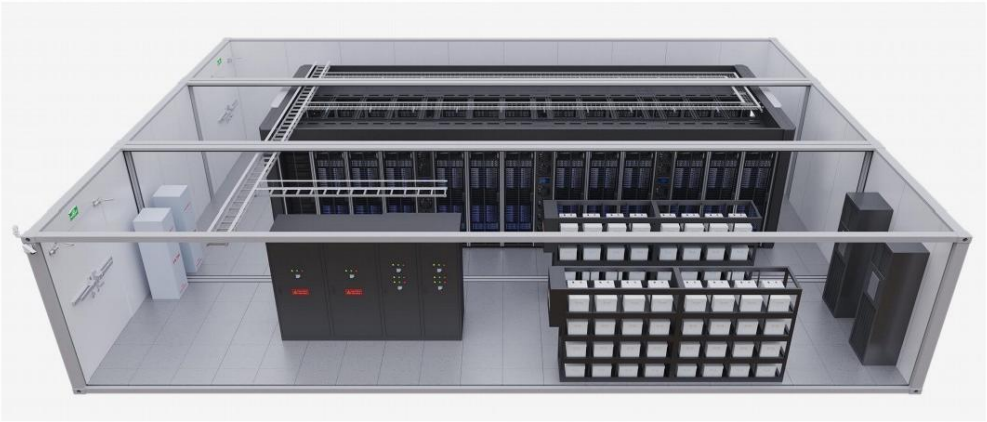
Container Data Center

RISING BuildTech

Component Overview



Oblique View of Containerized Data Center

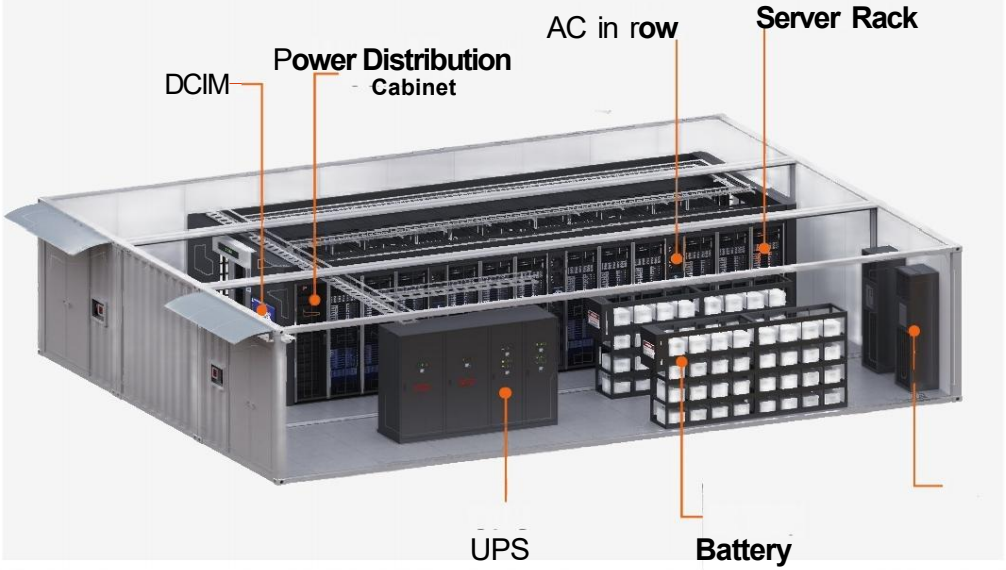


Side View of Containerized Data Center

Container Data Center

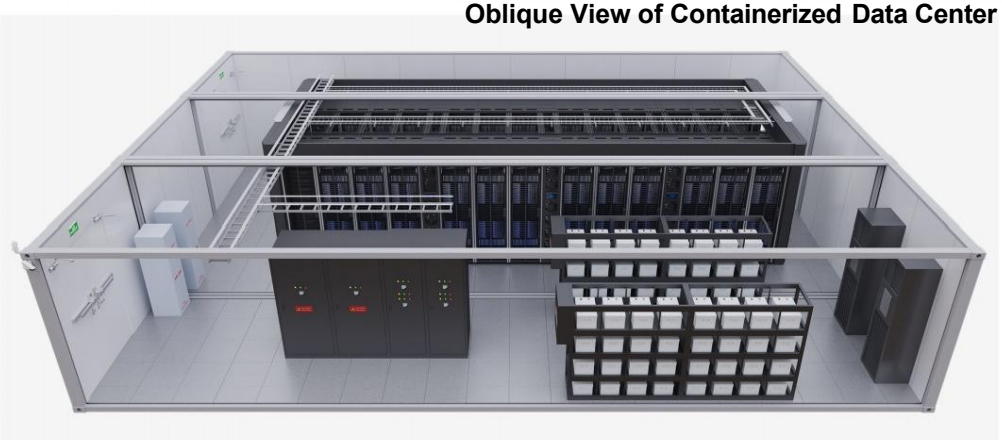
RISING BuildTech

Component Overview



A
C

Oblique View of Containerized Data Center

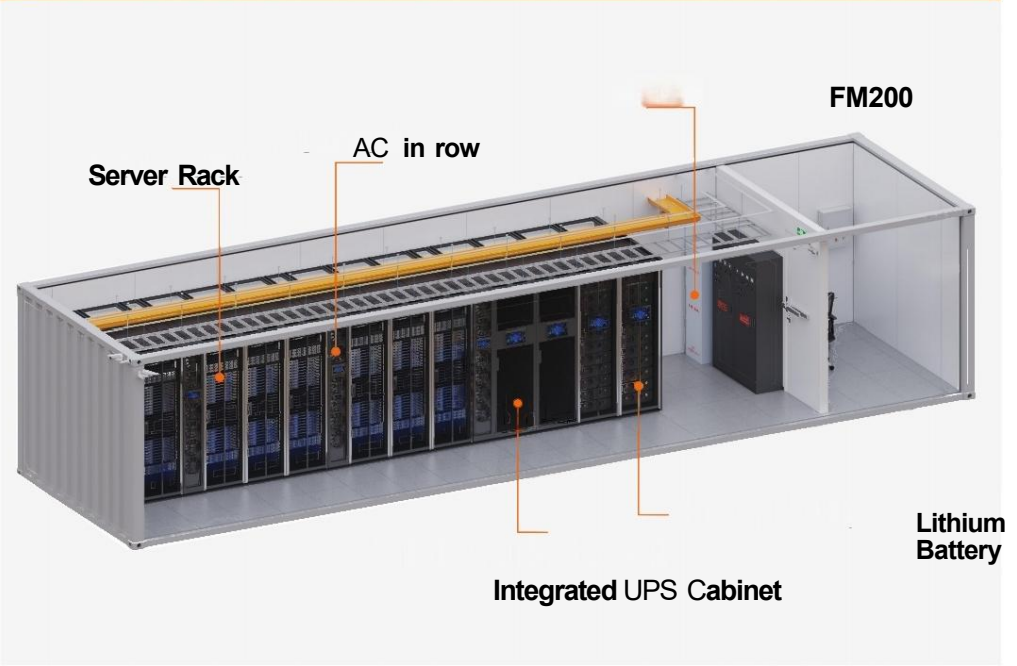


Side View of Containerized Data Center

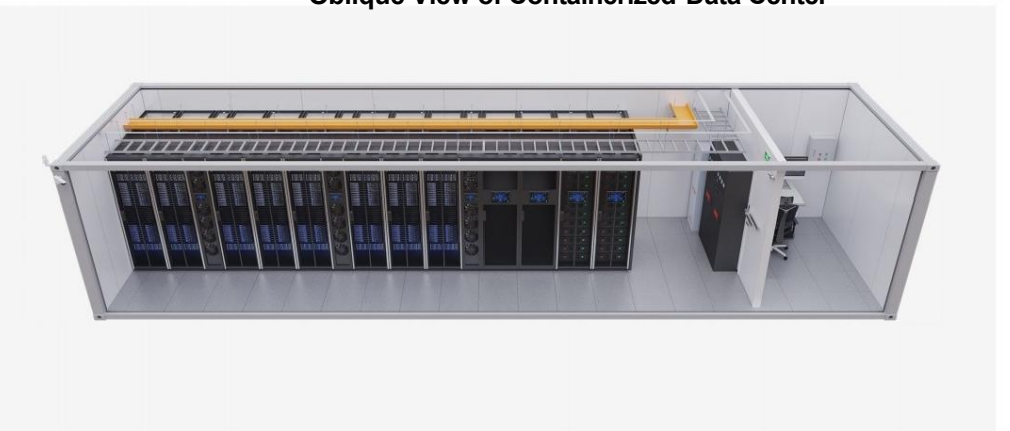
Container Data Center

RISING BuildTech

Component Overview



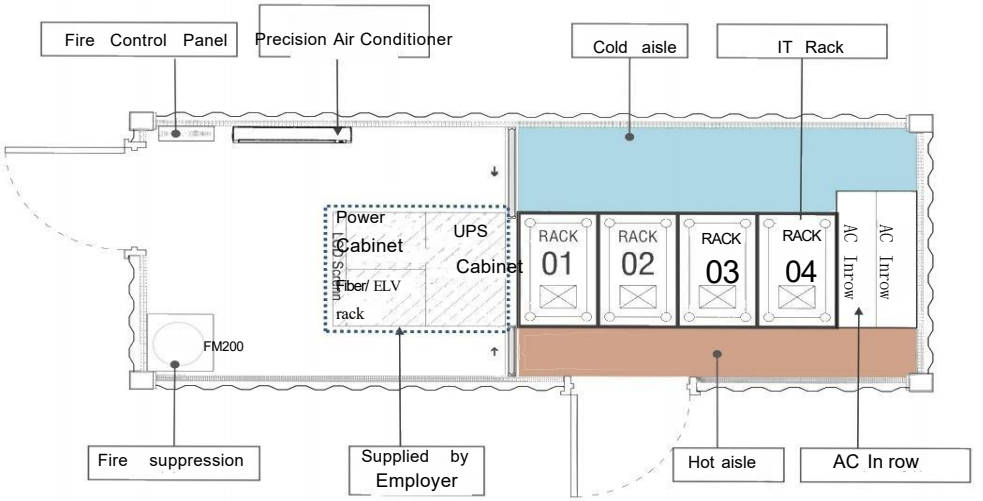
Oblique View of Containerized Data Center

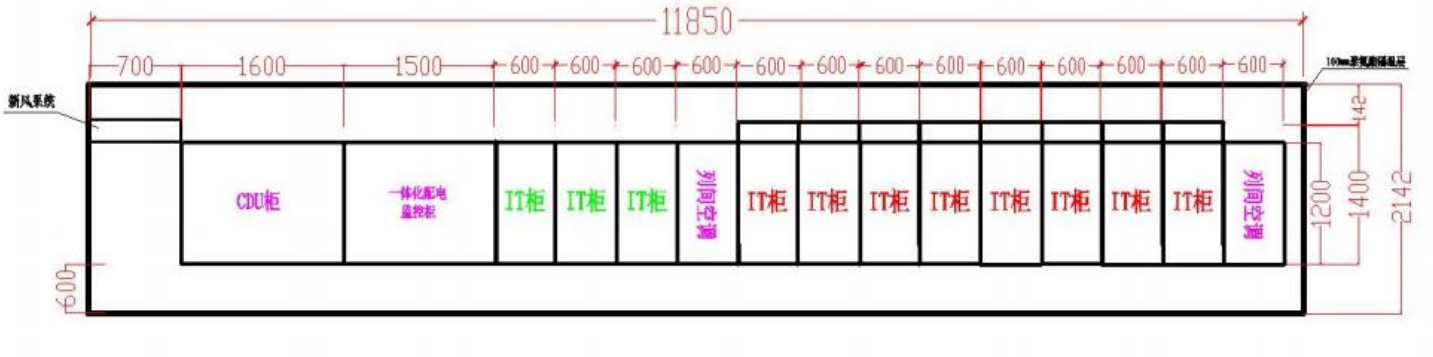


Side View of Containerized Data Center

Containerized Data Center

Modular Data Center All-In-One Containers





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PART 3

Project Introduction
案例介绍

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工程案例 Engineering case

Project Introduction

工程案例



Wolong Group Tianmen Phase II Energy Storage Project

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工程案例 Engineering case

Project Introduction

工程案例



腾讯清远清城数据中心项目

Tencent Qingyuan Qingcheng Data Center Project

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Project Introduction

工程案例

工程案例 Engineering case



伟能缅甸900MW燃气发电项目，采用400台20尺+40尺燃气发电集装箱和120台高低压柜集装箱。

The Weineng Myanmar 900MW gas power generation project uses 400 20 foot+40 foot gas power generation containers and 120 high and low pressure container units.

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PART 4

Recommended Products for Data Center

20尺神马算力方舱1.2MW
20HC 1.2MW computing power Container



产品名称Item	20尺神马算力方舱1.2MW 20HC1.2MW computing power Container
典型应用场景Applconion	超算中心&A训练集群，高密度GPU服务器集群配套液冷 Supercomputing Center &AI Training Cluster,High-Density GPU Server Cluster with LiquidColing
核心优势Core Advontoges	超大散热量、模块化扩展、高密度部署 Utra-High Heat Dissipation,Modulaor Scalobility,High-Density Deployment
机位容量Copacity	120台units
箱体规格mmcontainer Dimensions(uwxH)	6058×2438×2896mm
支持功率supportedmoxpower	1.2MW
散热方式water inlet/outlet interface	干冷器Dry cooling tower
分水管材质woterdistroutormoterial	304不锈钢材质304 stainless steel
PLC控制系统PLC contrel syatem	采用西门子PLC智能控制系统、具备远程监控功能 Adopts Siemens PLC inteligent control system with remote monitoringfunction
显示屏尺寸Displaoy	10英寸西门子触摸显示10-inch Siemens touch display
控制系统语言controlsystemlonguoge	中文、英语Chinese,English

40尺神马算力方舱2.4MW
40HC 2.4MW computing power Container





产品名称tem	40尺神马算力方舱2．4MW 40HC 24MW computing power Container
典型应用场景Application	**超算中心&A训练集群，高密度GPU服务器集群5G基站BBU配套液冷** Supercomputing Center &AITraining Cluster,High-Density GPU Server Cluster with LiquidCooling
核心优势core Advantages	超大散热量、模块化扩展、高密度部署 Ultra-High Heat Dissipation,Modular Scalability,High-Density Deployment
机位容量Copacity	最大支持240台unts maximum support240 units
箱体规格mmcontoine Dimenslons(xwxH)	12196×2438×2896mm
支持功率supoted max power	24MV
散热方式waterinlet/outletinterface	干冷器Dry cooling tower
分水管材质woterdistibutor moterial	304不锈钢材质304 stainless steel
PLC控制系统PLC controlsystem	采用西门子PLC智能控制系统、具备远程监控功能 Adopts siemens PLC intligent controlsystem with remote monitoring function
显示屏尺寸Display	10英寸西门子触摸显示10-inch Siemens touch display
控制系统语言Contd system longuoge	中文、英语Chinese,English

40尺算力方舱2.4MW 40HC2.4MW computing power Container



产品名称Item	40尺算力方舱24MW 40HC2.4MW computing power Container
典型应用场景Appiclion	超算中心&A训练集群，高密度GPU服务器集群配套液冷 Supercomputing Center &AI Training Cluster,High-Density GPU Server Cluster with Liquid Cooling
核心优势Core Advantoges	超大散热量、模块化扩展、高密度部署 Ultra-High Heat Dissipation,Modular scalobility,High-Density Deployment
机位容量Capacity	416台units
箱体规格mmcontainer imensions (uwxH)	12196×2438×2896mm
支持功率supported maxpower	2.4MW
散热方式water inletloutlet interfoce	干冷器Dry cooling tower
分水管材质woter distributor matericl	304不锈钢材质304stoinlesssteel
PLC控制系统PICcontrd system	采用西门子PLC智能控制系统、具备远程监控功能 Adopts Siemens PLC intelligent control system with remote monitoring function
显示屏尺寸Display	10英寸西门子触摸显示10-inch Siemens touch display
控制系统语言Controlsystem banguage	中文、英语Chinese,English

40尺算力方舱3.0MW 40HC3.0MW computing power Container

产品名称Item	40尺算力方舱3.0MW 40HC 3.0MW computing power Container
典型应用场景Appiconion	超算中心&A训练集群，高密度GPU服务器集群配套液冷 Supercomputing Center&AI Training Cluster,High-Density GPU Server Cluste withLliquid Cooling
核心优势Core Advantoges	超大散热量、模块化扩展、高密度部署 Utra-High Hea Dissipoation,Modular Scalability,High-Density Deployment
机位容量Capacity	480台units
箱体规格mmcontcine Drmencions (uxwxH)	12196×2438x2896 mm
支持功率suportedmax powor	3MW
散热方式water inlet/outlet interdace	干冷器Dry cooling tower
分水管材质woter distrioutormaterial	304不锈钢材质304 stainless steel
PLC控制系统PIC onto system	采用西门子PLC智能控制系统、具备远程监控功能 Adopts Siemens PLC inteliget control system with remote monitoring function
显示屏尺寸Display	10英寸西门子触摸显示10-inch Siemens touch display
控制系统语言cntrolsystemlonguoge	中文、英语Chinese,English



20尺蚂蚁算力方舱1.4MW 20HC1.4MW computing power Container



产品名称Item	20尺蚂蚁算力方舱1.4MW 20HC1.4MW computing power Container
典型应用场景Appfction	超算中心&A训练集群，高密度GPU服务器集群配套液冷 Supercomputing Center&AI Training Cluster,High-Density GPU Server cluster with Liquid Coling
核心优势Core Advontoges	超大散热量、模块化扩展、高密度部署 Ultra-High Heat Dissipation,Modular scalobility,High-Density Deployment
机位容量Copacity	240台units
箱体规格mmcontoiner Dimenaions(LowXH)	6058×2438x2896mm
支持功率supported mox power	1.4MW
散热方式water iniet/outlet interface	干冷器Dry cooling tower
分水管材质woter distrbutor moterial	304不锈钢材质304stainles steel
PLC控制系统PLCcontrol system	采用西门子PLC智能控制系统、具备远程监控功能 Adopts Siemens PLC intelligent controlsystem with remote monitoring function
显示屏尺寸Disploy	10英寸西门子触摸显示10-inch Siemens touch display
控制系统语言Controlsystemlonguage	中文、英语Chinese,English
进出水管径lnlet ond oulet pipe diameter	DNIOOPNI6国标法兰DN100 PMI6 national standard flonge

40尺算力方舱2.0MW 4OHC 2.0MW computing power Container

产品名称 Item	40尺算力方舱2.4MW 40HC 2.0MW computing power Container
典型应用场景Apliction	超算中心&A训练集群，高密度GPU服务器集群配套液冷 Supercomputing Center&AITraining Cluster,High-Density GPU Server Cluster with Liquid coolng
核心优势core Advcntoges	超大散热量、模块化扩展、高密度部署 ultra-High Heat Dissipation,Modular scalobilty High-Density Deployment
机位容量Capacity	336台units
箱体规格mmcontainer Dimensons(kwH)	12196×2438x2896mm
支持功率supported maxpower	2.0MW
散热方式water inlet/ouet interfoce	干冷器Dy cooling tower
分水管材质water distributor material	304不锈钢材质304 stoinless steel
PLC控制系统PLCcontrolaystem	采用西门子PLC智能控制系统、具备远程监控功能 Adopts Siemens PLC inteligent controlsystem with remote moitoring function
显示屏尺寸Displby	10英寸西门子触摸显示10-inch Siemens touch display
控制系统语言contrl system kanguoge	中文、英语Chinese,English



20-40尺算力方舱0.8-2.0MW浸没式20-40HC0.8-2.0MW immersion cooling Container

产品名称Item	**20-40尺算力方舱0.8-2.0MW浸没式** 20-40HC 0.8-2.0MW immersion cooling Container
典型应用场景Aplicotion	超算中心&A训练集群，高密度GPU服务器集群配套液冷 Supercomputing Center&AITraining Cluster,High-Density GPU Server Cluster with Liquid Cooling
核心优势Core Advantogos	超大散热量、模块化扩展、高密度部署 Ultra-High Heat Dissipation,Modular Scalability,High-Density Deployment
机位容量Copacity	100-260台units
箱体规格mmcontoiner Dimensions(xwH)	6058×243B×2896/12196×243Bx2896mm
支持功率supotod max power	2MW
散热方式aterinlet/outletinterface	干冷器Dry cooling tower
分水管材质woterdistibutormaterial	304不锈钢材质304 stainless steel
PLC控制系统rC controlsystem	采用西门子PLC智能控制系统、具备远程监控功能 Adopts Siemens PLCinteligent controlsystem with remote monitoring function
显示屏尺寸Display	10英寸西门子触摸显示10-inch Siemens touch display
控制系统语言Contrc system longuoge	中文、英语Chinese,English

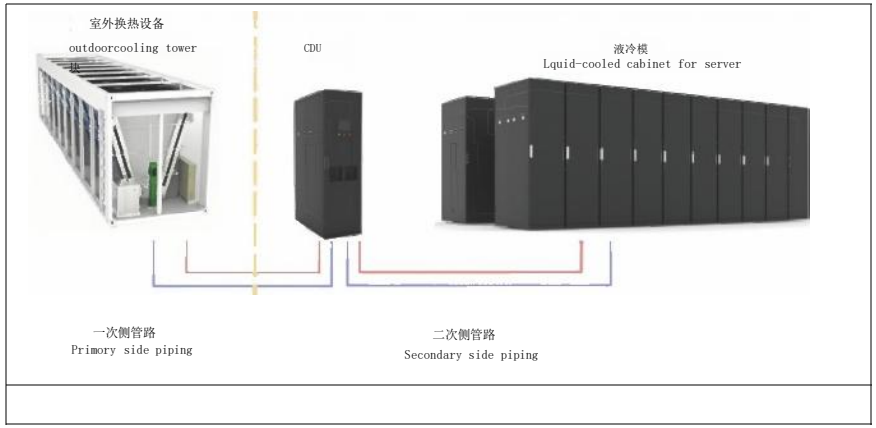


干冷器 dry cooling tower



型号model	120	400	800	1400
换热量Colng opocity	120KW	400KW	800KW	1400KW
载冷剂coolant	冷却液/去离子水/乙二醇水溶液/丙二醇水溶液Delonizedwoter /Ethylene glycol/Propylene glycol			
换热组合方式Drycooler TYpe	V型V-type			
换热器款式Hieot exchonger atye	不锈钢材质stainless steel			
主电源Power	380V/50HZ			
功率Power consumption	3.6KW	14.4KW	32.4KW	
风机形式Fan type	+AC			
风机传动方式Fan dive mode	直驱Direct drive			
总风量Totalai voume	50000m³/h	190000m²/h	380000m³/h	460000m³²/h
风机台数Number of tans	2	8	18	20
风机调速范围Adjustoble Fan speed range	10%~100%			
风机控制Fran control	无极调频nfinite frequency modulation			
启动时间startuptime	≤10S			
设计压力Design presure	1.0MPa			
进出风温度Irletand outlet cir termperature	38°C/43°C			
进出液温度irletand outlet liquid termperature	40°C/50°℃			
可调控出液(温度范围)cjustable licuidoutput (temporoture range	30°℃-60°℃			
通讯接口communloation interfoce	RS485			
运行噪声operating noilse	60dB(A)	65dB(A)	68dB(A)	70dB(A)
外形尺寸Dimensons(wxD×H)	2800x1550x1670mm	5410×2250x2250mm	10340x2250x2230mm	11950×2250x2400mm

机柜式方案Cabinet-based Cooling Solution



数据中心液冷机柜散热方案通过在服务器CPU、GPU等发热部件安装金属冷板，利用高导热冷却液(如水基混合液)循环带走热量：冷却液流经冷板吸收芯片热量后，通过外置换热器降温回流，形成闭式散热循环。该方案凭借液体高效导热特性，散热效率比传统风冷提升40%-50%，支持单机柜功率密度从10kW以下提升至30-50kW，彻底解决高密度算力设备的散热瓶颈。系统无需大量风扇，能耗降低50%以上，数据中心PUE可降至1.1以下，兼具节能与静音优势(噪音<55dB)，适用于AI训练、云计算等高密度场景，在保障设备稳定运行的同时，实现绿色高效散热。

Data Centers liquid-cooled cabinet heat dissipation **solution involves installing metal cold plates on heat-**generating components such as server CPUs and GPUs, and circulating a highly thermally conductive coolant **(such as a water-based fluid)to remove heat.After the** coolant flows through the cold plate and absorbs heat **from the chips,it is cooled and returned through an external** cooling tower,forming a closed heat dissipation cycle. **Leveraging the liquid's efficient thermal conductivity, this solution improves heat** dissipation efficiency by **40%-50%compared to traditional air cooling.It supports** increasing the power density of a single cabinet rom **below** 10kw to 30-50kw,completely resolving the heat dissipation bottleneck of high-density computing power equipment.The system eliminates the need for excessive fans,reducing energy consumption by over 50%,and reducing the data center's PUE to below 1.1.It also combines energy-saving and quiet operation(noise(55dB),making it suitable for high-density scenarios such as AI training and **cloud computing.This solution ensures stable equipment** operation while achieving efficient and environmentally **friendly heat dissipation.**

方舱式方案containerized Cooling Solution

液冷方舱散热方案通过在方舱内关键发热设备(如服务器、电源模块)表面集成高导热冷板，采用去离子水与乙二醇混合液作为冷却液，构建封闭式循环散热系统：冷却液在泵组驱动下流经冷板吸收热量，升温后通过方舱外置的紧凑式换热器(如翅片式或板式换热器)与外界空气或低温介质进行热交换降温后回流形成闭环。该方案利用液体10倍于空气的热传导能力，将散热效率提升50%-70%，可在40℃高温环境下确保设备结温控制在85℃以内，同时取消传统风扇，能耗降低60%以上，噪音低于50分贝。方案采用全密封管路设计具备IP65级防尘防水能力，适应户外高粉尘、高湿度及温差剧烈场景，支持块化快速部署，广泛应用于车载移动数据中心、野战通信方舱、边缘计算集装箱等紧凑化、高可靠性散热场景，在有限空间内实现高效散热与环境适应性的双重优化。

The containerized liquid-cooled heat dissipation solution integrates high-thermal conductivity cold plates on the key heat-generaing equipment(such as servers and power modules)in the container.**Using a mixture of deionized water** and ethylene glycol as the coolant,this creates a closed-boop cooling system.Driven by a pumping station,the coolant flows through the cold plates,absorbing heat.After heating,it exchanges heat with the outside air or a low-temperature medium through a compact external heat exchanger(such as a fin-type or plate heat exchanger),and then the cooled **fluid flows back into container to forma closed-loop cooling system.This solution utilizes the thermal conductivity of liquid, which is 10 times that of air,to improve heat dissipotion** efficiency by 50%-70%.Even in a high-temperature environment of 40℃,it can keep the junction temperature of equipment below 85°℃.It also eliminates traditional fans,reduces energy consumption by over 60%,and keeps noise levels below 50 decibels.The solution adopts a fully sealed pipeline design with IP65 dust and water resistance,adapts to outdoor high dust,high humidity and drastic temperatue differences, supports modular rapid deployment,and is widely used in compact,high-**reliability heat dissipation scenarios such as** on-boad mobile data centers,field communication shelters,andedge computing containers,achieving dual optimization **ofefficient heat dissipation andenvironmental adaptability in alimited space.**

数据中心冷板式液冷基础设施产品组成

Data center **cokd plate lquid codling i**nfrastructure product components





THANKS

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