GREEN POWER + GREEN AIDC

Wind-Solar-Storage Microgrid Solution – Lower LCOE

Stable Power Supply

Microgrid + Grid-Forming ESS ensure reliable, high-quality power on weak grids.

Cost Optimization

Renewables + ESS slash electricity costs and reduce reliance on costly diesel generators.

Carbon-Free Power Supply

Renewable backup replaces DG, delivering carbon-free power while satisfying ESG metrics and securing LEED green-AIDC certification.

Immersion Liquid Cooling Solution – Cutting Energy Consumption

Lower OPEX

fanless servers, slash auxiliary power, drop PUE to 1.05.

Extended Lifespan

Dielectric immersion shields hardware from corrosion and thermal cycling, boosting MTBF and extending service lifespan.

Higher Density Cooling

120 kW+ rack-level cooling maximizes AIDC deployment density, recycles high-grade heat, cuts OPEX.

Prefabricated Modular Container Technology

Plug-and-play, High ROI

- Factory-preintegrated functional modules (power/MEP/thermal)

  Plug-and-play on-site modular assembly
- Parallel-tracked site prep & module fabrication
- 5-8 month faster deployment vs conventional construction
- 1-2 year earlier operational launch boosting ROI

Engineered Structural Resilience

- 7-degree seismic-resistant structure
- Corrosion-resistant coating & B1+ fire-rated insulation
- Certified weather / water/ wind / seismic resistance

Sustainable Construction

- Green construction: dust-free, low-noise
- >80% construction waste reduction
- >30% land footprint reduction

KORTRONG

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KORTRONG

One-stop Solutions for "Green Power + Green AIDC"

Zhuhai Kortrong AIDC Technology Co., Ltd

ABOUT KORTRONG

Kortrong group is headquartered in zhuhai, china, and is dedicated to offering global customers leading one-stop solutions for "Green Power + Green AIDC."

GREEN POWER

Kortrong has mastered core technologies in the energy storage industry chain, building a closed-loop ecosystem via self-developed core materials, components, systems, production lines and business models. Its immersion liquid-cooling energy storage system was deployed at the world's first such power station (Meizhou Baohu), solving battery safety issues. Smart integration of grid-forming storage and microgrids for hybrid energy synergy leading a green power revolution.

GREEN AIDC

Kortrong leverages green power and energy-efficient technologies to deliver cost-effective, high-performance computing resources for AIDC.

500+	130,000+m²	300+
Employees	Incubation & ESS industrial park	Patents

CORE DATA CENTER COMPONENTS

Liquid Cooling IT Cabinet

Distributed CDU

Liquid Cooling Manifold

Closed-Loop Cooling Tower/Dry Cooler

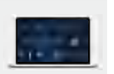
IT Container Unit

Power & Distribution Container Unit

Immersion-cooling Li-ion Battery System

Auxiliary Container Unit

Containerized DG Unit



DCIMS

Immersion Cooling AIDC Cube

- Plug & Play
- High Integration
- Extended Service Life
- Failure-Resistant

Item	Single Cabinet(18K)	Dual Cabinet(36K)	Triple Cabinet(54K)
Dimensions L×W×H(mm)	2250×1400×2200	3000×1400×2200	3750×1400×2200
Liquid Cooling IT Cabinet Qty	1	2	3
Liquid Cooling IT Cabinet Power (kW)	18		
Supported Compute Units (Units)	4		
Air Cooling Network Cabinet Qty	1		
Air Cooling Network Cabinet Power (kW)	6	6	10
Rack-Mounted Modular UPS	20-100kVA Capacity, 3-Phase I/O (N+1 Power Module Redundancy)		
Backup Battery System	15min Backup (Immersion Li/Pb-Acid)		
Infrastructure Monitoring	7" Touchscreen, Temp/Humidity, Smoke, Surge Prot, PUE, Aud/Vis Alarms		

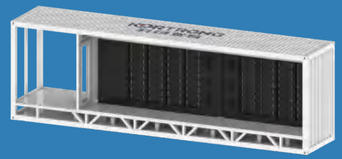
Prefabricated Integrated AIDC

- Delivery as fast as 30 days
- Plug-and-Play
- 1-2Yr Early Ops, Higher ROI

Item	Immersion Cooling AIDC	Cold Plate AIDC
Container Size L×W×H(mm)	12192×2438×3800	
Liquid Cooling IT Racks	4	
Power per Liquid Cooling IT Cabinet	Standard 40 kW, higher power customization available	
Network Cabinet	2	
Power per Network Cabinet	Standard 10 kW, higher power customization available	
Cabinet Size L×W×H(mm)	750×1200×2500	600×1200×2500
Transport	Over-the-Road (OTR) or Maritime Shipping	
Coolant	Single-phase dielectric	Glycol-water
Power Supply	Modular UPS	
Battery	Immersion Liquid Cooling LFP	
Backup Time	>15 min	
Monitoring Systems	Smart Access Control / Video Surveillance / Temp. & Humidity Monitoring / Leak Detection / Fire Monitoring / Battery Monitoring	

Prefabricated Cluster IT Container Module

- Prefabricated Modules, Pre-Integrated, Pre-Tested
- Scalable & Stackable
- 40-ft ISO Container
- Distributed CDU with Blind-Mate Liquid Cooling



Item	Prefabricated Cluster IT Container Module
IDC Tier	Tier II / Tier III compliant
Max Compute (RTX 4090)	320 PFlops FP16 sparse
Container Size L×W×H(mm)	12192×2438×3800
Total IT Load	Standard 340 kW, higher power customization available
Cooling Method	Immersion liquid cooling (servers) + HVAC (ambient)
Power Redundancy	2N rack-level distribution
Infrastructure Monitoring	Power, environment, access, video
Equipment Layout	8×liquid cooling IT cabinets, 2×network cabinets, 2×rack-level power distribution units, 1×in-row precision cooling system, 8+2 redundant distributed CDUs

Prefabricated Cluster Air Cooling Power Module

- Prefabricated, Rapid Delivery
- Visualization System for Easy Management
- High-Density, 30%+ Space-Saving
- 96%+ UPS Efficiency

Item	Prefabricated Cluster Air Cooling Power Module
Grid Voltage	10kV/35kV
Output Voltage	0.4 kV ±15 %, 3P+N+PE
Transformer Capacity	4000 kVA * 1250 kVA
Protection	IP54
Cooling Method	Intelligent air cooling UPS + Immersion liquid Cooling Li-ion
Backup Duration	⩾15 min
Infrastructure Monitoring	Power, environment, access, video
Operating Temperature	-20°C ~ 50°C
Dimensions L×W×H(mm)	19000×5800×3500

INV+EPC+F+O INTEGRATED PARTNERSHIP MODEL

INV
Industrial Investment

EPC
Engineering, Procurement & Construction

F
Capital & Financial Solutions Partnership

O
Long-term Operational & Management Services

- **Lifecycle Integration:** Design to Maintenance
- **Industrial Investment:** Creating Local Jobs, Tax Revenue & Industry Value
- **Operational Assurance:** Expert O&M Team Secures Your ROI
- **Risk Collaboration:** Shared Project Liability
- **Financial Solutions:** Provides Upfront Capital via Tailored Financial Solutions

6%+ IRR

Leading Technology
Prefabricated Modular Container + Immersion Cooling

↓20%+ OPEX

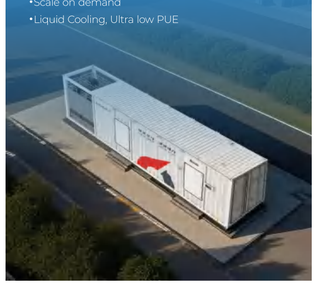
Energy Efficiency
Immersion Cooling Slash Operational Power Consumption & PUE

AIDC Cube Enterprise Deployment

- All-in-one delivery, on-premises deployment
- Energy-efficient & whisper-quiet
- Plug-in, zero-touch O&M

Integrated AIDC Campus

- Adaptive all-in-one solution
- One-container, one-DC
- Scale on demand
- Liquid Cooling, Ultra low PUE



Modular MegaScale AI Cluster Facility

- Modular cluster, limitless scaling
- Prefabricated, globe-ready, faster deploy
- High-density, collaborative O&M

Mobile AIDC Container

- 40-ft ISO container, road/sea ready
- Arrive & run in disaster, survey, field ops
- Liquid Cooling density, compute anywhere

Stablecoin Mining Solution

- High-density, mobile rigs for global sites
- One container = one scalable farm
- Consolidate O&M, lower cross-border cost