

风冷数据中心

Air cooling data center

产品特性:

- 高度模块化集成设计、易于安装、一站式管理、让服务器部署更简单
- 服务器容量大、兼容性高、可适配市场上主流设备
- 散热能力强、能轻松适应高温、高湿等不同场景的部署需求

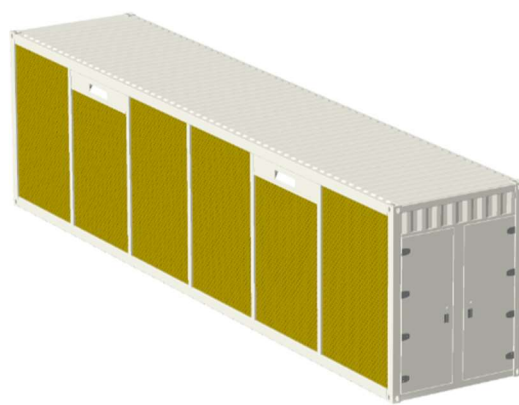
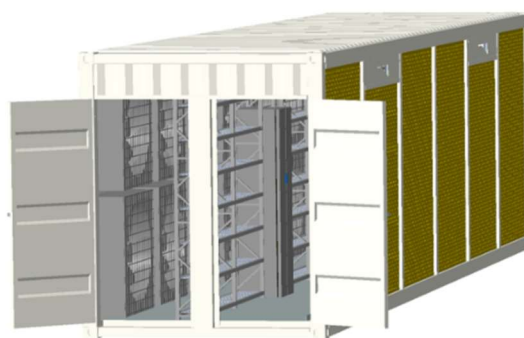
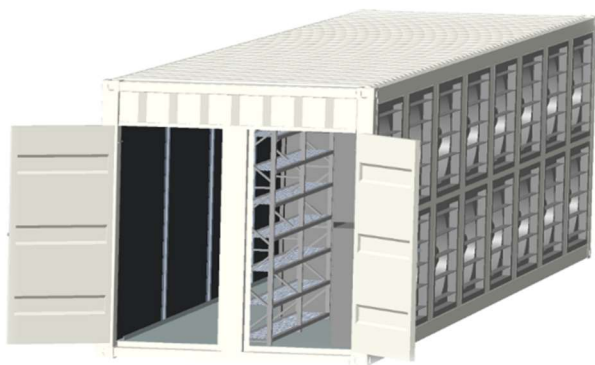
Futures:

- Highly modulation and integrated design, easy installation, one-stop management, make servers deployment easier!
- Large capacity and high compatibility, compatible with the majorities of servers!
- Strong heat dissipation capacity, easily adapt to different scenarios such as high temperature and humidity etc.



技术参数 Specifications:

箱体重量 Gross Weight	3860kg Approximately 3.8tons
箱体颜色 Color	白色 White
外箱尺寸 External Dimension (in millimeters)	12000mmx2400mmx2800mm (W x D x H)
内箱尺寸 Internal Dimension (in millimeters)	11800mmx2300mmx2600mm (W x D x H)
适应环境 Environment	Below 45℃ or 90%RH
散热模式 Heat dissipation	风冷 Air cooling
配电 Electricity Demand	850KW*2 (1.7MW)
服务器容量 Servers Capacity	336pcs
箱内温湿度监控 Temp&Hum Monitor	双路温湿度 Web/APP 监控 Dual-channel Temp&Hum Monitor through Web/APP
风机 Wind Machine	16pcs (1220*1220*325mm)
电气标准 Electrical Code	UL、CE、CSA
运输标准 Transportation Standard	船级社认证 Certified by China Classification Society
高度拼装 Vertical assembly	建议不超过 2 层 Up to 2layers



电气部件 Electrical components

※配电柜 Power Distribution Cabinet

断路器容量 Circuit breaker capacity: 1200A x 2

额定电流 Rated current: 850A x 2

输入电压 Voltage Input: 380V~415V AC 50/60HZ

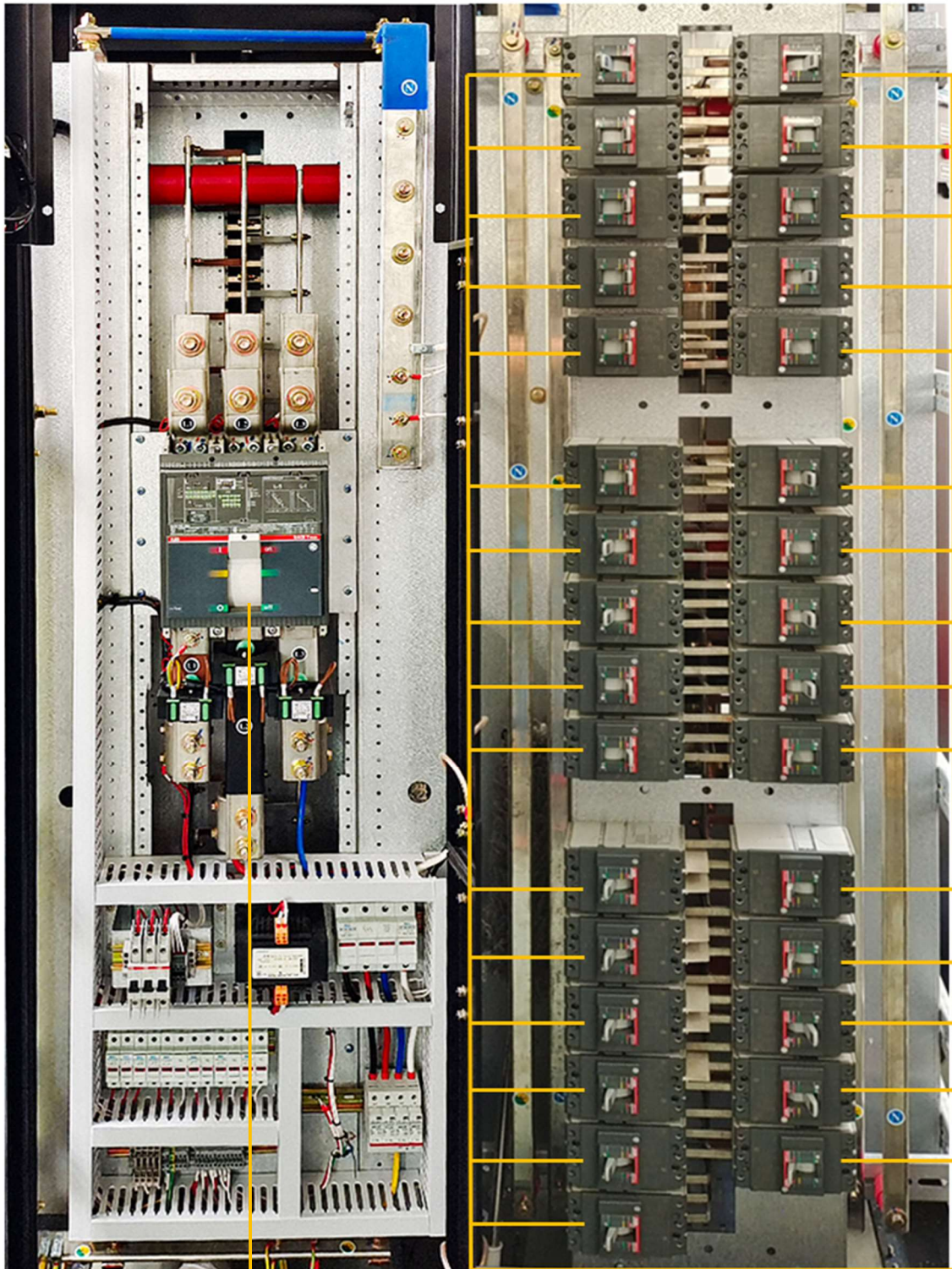
运行功率 Operating power: Up to 1.7MW



380VAC/1200A
Master switch

380VAC/400A
Branch switch
Connect to PDU

PDC Version CE



415VAC/1200A
Master switch

415VAC/40A
Branch switch
Connect to PDU

PDC Version UL

※电源分配单元 Power Distribution Unit

1. PDU (CE):

尺寸 Size: 1500mm x 42mm x 65mm (W x D x H)

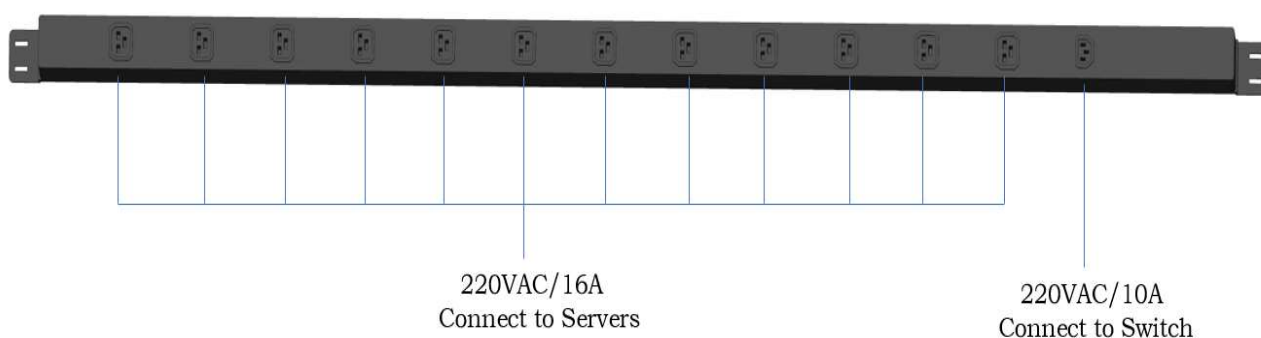
最大功耗 Max Power Consumption: 48KW

电流电压 Current voltage : 63A 380V/220V AC

插座组合 Plug base: 1*C13 + 12*C19 IEC Plug

电线规格 Cable size: 5*16 mm²

接线方式 Wiring method: Terminal Inlet (TN-S)



2. PDU (UL):

尺寸 Size: 1724mm x 45mm x 80mm (W x D x H)

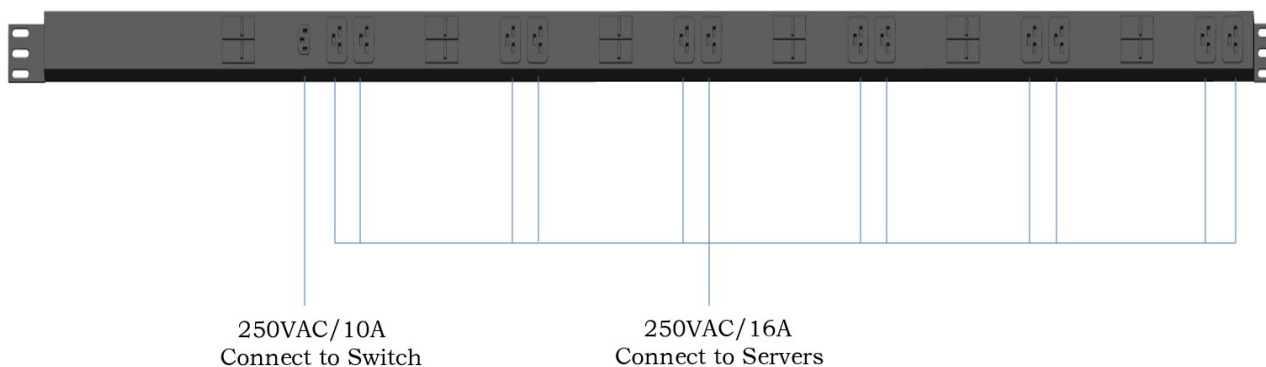
最大功耗 Max Power Consumption: 48KW

电流电压 Current voltage : 63A 415V/250V AC

插座组合 Plug base: 1*C13 + 12*C19 IEC Plug

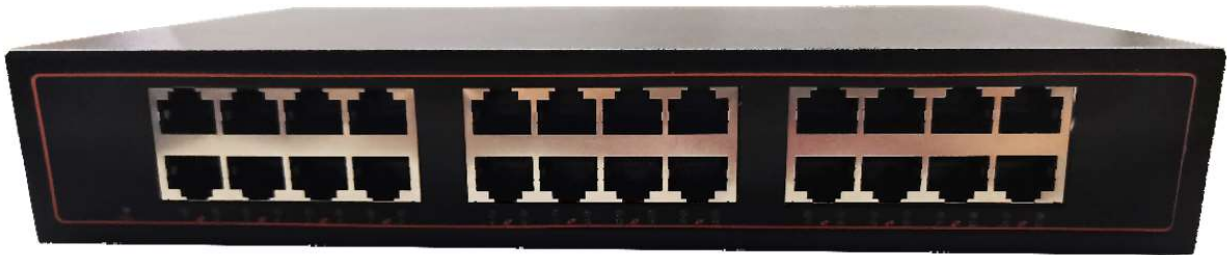
电线规格 Cable size: 4*4AWG+1*6AWG

接线方式 Wiring method: Terminal Inlet (TN-S)



※交换机 Switch

尺寸 Size: 256mm x 170mm x 43.1mm (W x D x H)
重量 Weight: 0.91 kg
电流电压 Current voltage : 10A 176-256V AC
认证标准 Certification standard: CE、FCC、IC、ETL
通信标准 Access standards: IEEE 802.3 10Base-T/802.3u 100Base-T/802.3x flow control
通信接口 Communication interface: 24 10/100Base-Tx (RJ45)
工作环境 Work environment: Temperature -10~55℃ humidity 5~95% (non-condensing)

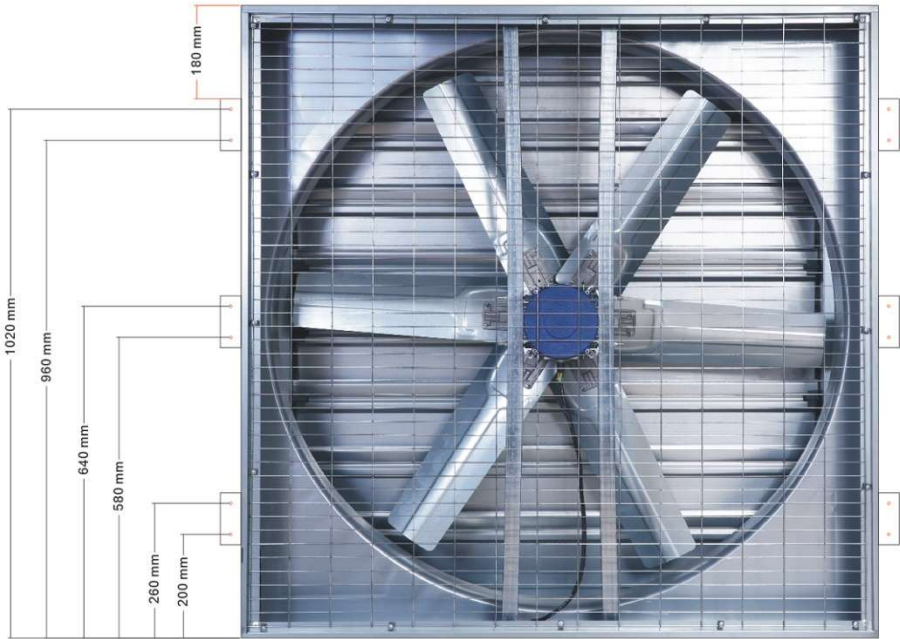


※防爆负压风机 Explosion proof negative pressure fan

本产品具有防爆性能可靠、风量大、噪音小以及耗电少等优点，可用于易燃易爆气体、高温高湿等各种恶劣环境的通风换气，如矿井、隧道、集装箱数据中心等通风换气。

The advantages of product contain reliable explosion-proof performance, large air volume, little noise and low power consumption. It can be used for ventilation in various harsh environments, such as mines, tunnels, container data centers, etc.

型号	尺寸 (mm)	风量 (m³/h)	噪音(db)	转速(r/m)	功率(w)	额定电压
Model	Dimension(mm)	Air volume (m³/h)	Noise(db)	Speed(r/m)	Power(w)	Rated voltage
1220#	1220*1220*325	30000	<60	450	750	415V



※温湿度监控器 Temperature and humidity monitor

采用双路以太网温湿度记录仪，使用瑞士进口高精度传感器探头，保证了产品的优异测量性能。采用纽扣后备电池，外部断电还能正常记录数据，保证数据的完整性。数据主动上报到云监控平台，无需监控主机、采集器等设备，设置好温湿度上下限等相关参数，当环境温湿度超出上下限、电池电量过低、外部供电断开和设备离线时，会立即触发告警，告警通知可发送至邮箱和手机短信。支持网页、手机 APP 登陆查看及导出实时数据、实时曲线、告警记录、历史记录等。

It includes a dual-channel Ethernet Temp & Hum Recorder, a high-precision sensor imported from Switzerland and a button batter as backup power. The data of monitor can be uploaded to cloud independent. Besides that, the alarm can be setup based on the pre-limits of temp & hum data, power limits of battery, external power supply and device status. It will be notified though both email and SMS. Furthermore, It is supported through webpage or mobile APP login to view and export real-time data and curves, alarm records, historical records, etc.

技术参数 Specification	
尺寸 Dimension	90mm x 95mm x 30mm (L x W x H)
供电 Power Supply	标准 POE 48V/端子上电: DC9V-30V Standard POE 48V/Terminal Power Supply: DC9V-30V
测量范围 Measuring range	温度: 外置 2 米探头-40℃-85℃, 湿度: 0-100%RH Temperature: External 2m probe -40℃-85℃, Humidity: 0-100%RH
测量精度 Measurement precision	温度: ±0.3℃ 分辨率: 0.1℃ 湿度: ±3%RH 分辨率: 0.1RH Temperature: ±0.3℃ Resolution: 0.1℃ Humidity: ±3%RH Resolution: 0.1RH
输出接口 Output port	RJ45 以太网 RJ45 Ethernet
电池容量 Battery capacity	1000mAh
开关输出量 Switch output	可选两组开关量输出，默认无 Optional two sets of switch output, default none
存储容量 Storage capacity	5 万组 50,000 groups



※注意事项：

- 产品在安装过程中须保持垂直（水平度 $\pm 1^\circ$ ）。
- 叠加两层时，地面需按 20 吨荷载做硬化。
- 设备吊装时，需采用大于 10 吨吊车。
- 工作环境要求温度-25~45℃ 湿度不超过 90%RH。
- 开机时需保证箱内温度高于 0℃。
- 海拔大于 1000 米起，变压器及开关考虑降容，即每升高 100 米降容约 1%。
- 产品使用环境温度并不代表服务器使用环境温度。
- 本集装箱数据中心提供三相配电柜、电源分配单元、网络设备、服务器机架、排风扇等，之外的设施如需，我们也可以提供技术支持。

Notes:

- Gentle reminder that the product needs to keep vertical during installation, horizontal degree (± 1 degree).
- The ground will need to be hardened to withstand the load of at least 20 tons if needs to store 2 units vertically.
- At least a 10t crane is required for loading & unloading.
- Operating temperature: -25°C to 45°C . Operating humidity: less than 90%RH.
- The internal temperature should be $>0^\circ \text{C}$ when power on.
- Once the altitude is larger than 1000m, the transformer and switch shall be considered for capacity reduction, and the capacity reduction shall be about 1% for every 100m increase of the altitude.
- The operating ambient temperature of products does not represent operating temperature of servers.
- The data container is equipped with three-phase power distribution cabinets, power distribution units, network equipment, server racks, exhaust fans etc. We are willing to offer technical supports if any other facilities are required.