

户外机柜直流空调器-N系列

Outdoor Cabinet DC Air Conditioner-N Series

产品简介

应用范围

- 本产品广泛应用于户外通讯机柜、电池柜、电气柜、工业控制柜等需要散热的场合。

设计专长

- 全部配置直流器件，真正的全直流空调；
- 矢量变频，精确控温；
- 宽电压设计：DC44~59V，适合范围更广；
- 完善的运行逻辑，避免了对供电系统的冲击；
- 完美的低能耗设计，能效比（EER） ≥ 3.5 ,季节能效比（SEER） ≥ 5.5 ;
- 相比同类交流型号产品节能率高达50%；
- IP55防护等级、适合T3高温工况、R134a环保制冷剂；
- 太阳能、风能、油机等新能源混合供电系统中完美的冷却散热解决方案；
- 精湛工艺及高质量国际名牌配件确保产品更加稳定可靠；
- 多重保护功能；
- LED数码管显示，现场参数可设置；
- 干接点告警输出，常开/常闭可选；
- 配置有通讯接口:RS485。

Product Introduction

Range of application

- This series product can be widely used in enclosed area for climate control, such as wireless communication cabinet, battery cabinet, industry control cabinet etc;

Product Design Feature

- Designed with all DC driven components like fans, compressor;
- Precise temperature control through inverter digital regulation of compressor, fans;
- Power supply voltage range: DC44~59 V;
- A comprehensive self-protection design to realize partial load starting, partial load operation at severe ambient condition;
- Low power consumption design with EER ≥ 3.5 , SEER ≥ 5.5 ;
- Energy saving reach to 50% comparing with A.C. version product;
- IP55 environment protection & fit for T3 high temperature working condition by using of R134a refrigerant gas;
- The best cooling solution for solar, wind, diesel generator etc, hybrid power system;
- Strict process control and international brand parts deployed to ensure high quality and reliable of this product;
- Multiple self protection design;
- LED Display, all the settings can be changed at the field;
- Dry contact alarm output, NO/NC optional;
- Equipped with communication interface:RS485.

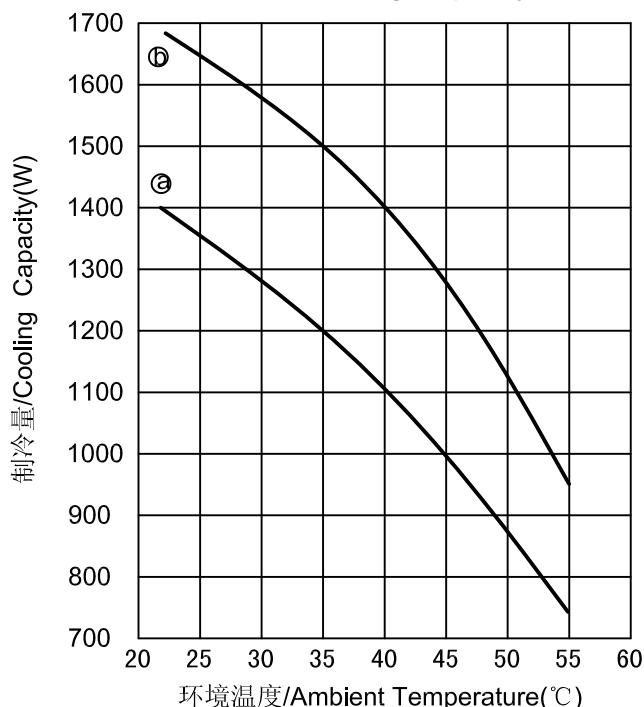


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技术参数 / Technical Parameters

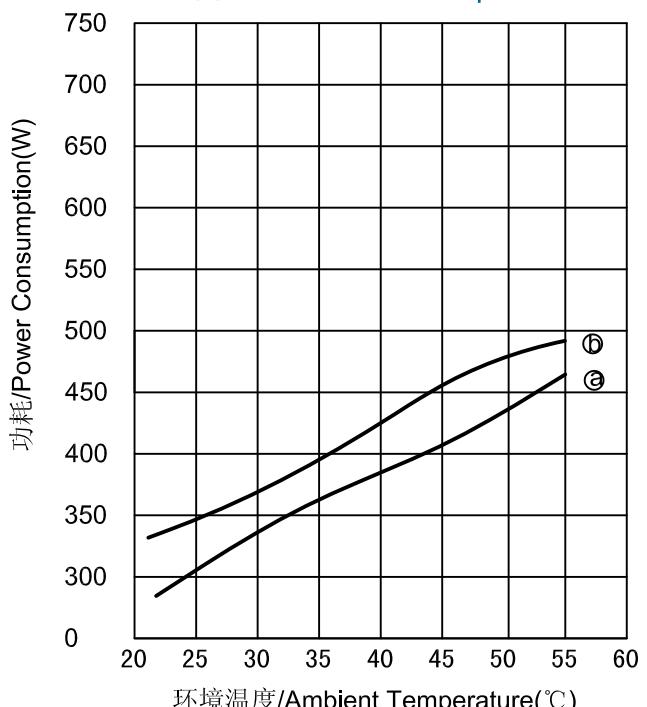
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|--------|---------------------------|--|
| 产品名称 | Name | 户外机柜空调器/Outdoor Cabinet Air Conditioner |
| 型号 | Model | JGLC A 015/N/E/D |
| 固定方式 | Mounting Method | 半嵌入/Semi-embedded Mounting |
| 电源 | Power Supply | -48VDC |
| 制冷量 | Cooling Capacity | 1500W@L35/L35 |
| 功耗 | Power Consumption | 395W@L35/L35 |
| 制冷量 | Cooling Capacity | 940W@L35/L55 |
| 功耗 | Power Consumption | 490W@L35/L55 |
| 内循环风量 | Internal Airflow | 400m³/h |
| 工作温度范围 | Working Temperature Range | -40℃~+55℃ |
| 最大噪音 | Max Noise Level | 65dB(A) |
| IP等级 | IP Grade | IP55 |
| 净重 | Net Weight | 45kg |
| 制冷剂 | Refrigerant | R134a |
| 外形尺寸 | Dimensions | 1116x416x170(mm,HxWxD) |
| CE和环保 | CE&RoHS Compliant | 符合/YES |
| 表面处理 | Surface Treatment | Outdoor type powder coating, standard color: RAL7035 |

冷量曲线/Cooling Capacity Chart



柜内温度 Cabinet Inside Temperature
 ②-----25°C
 ⑥-----35°C

功耗曲线/Power Consumption Chart



柜内温度 Cabinet Inside Temperature
 ②-----25°C
 ⑥-----35°C

外形尺寸 / Product Dimension

| 产品代码/Code | 产品型号/Model | 安装方式/Installation | |
|-----------|------------------|----------------------------|--|
| 88840 | JGLC A 015/N/E/D | 半嵌入/Semi-embedded Mounting | |

The technical drawing illustrates the product dimension of the JGLC A 015/N/E/D air handling unit. It includes three views:

- Front View:** Shows the top surface with a fan at the bottom left, a control panel with a digital display in the center, and a heat exchanger coil on the right. Dimensions include 5×200=1000 mm width, 451 mm height, 300 mm depth, and 1151 mm side height.
- Side View:** Shows the unit's profile with a drain hole on the left side. Dimensions include 1112 mm height, 170 mm depth, and 1116 mm side height.
- Cross-Section:** Shows the internal structure with an exhaust air duct at the bottom, a drain hole, and an external coil on the right. Dimensions include 412 mm height, 416 mm depth, and 470 mm side height.

Annotations indicate the flow of air:

- 内循环进风 (Return air):** Labeled on the front view at the bottom left.
- 内循环出风 (Supply air):** Labeled on the front view at the top right.
- 外循环进风 (Ambient air):** Labeled on the side view at the top right.
- 外循环出风 (Exhaust air):** Labeled on the cross-section at the bottom left.
- 排水孔 (Drain hole):** Labeled on the side view at the bottom left.

安装说明 / Installation instructions

| 产品代码/Code | 产品型号/Model | 安装方式/Installation | |
|-----------|------------------|-----------------------------|--|
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图1-柜门开孔尺寸
Figure 1-Cabinet Door Cutting Dimension

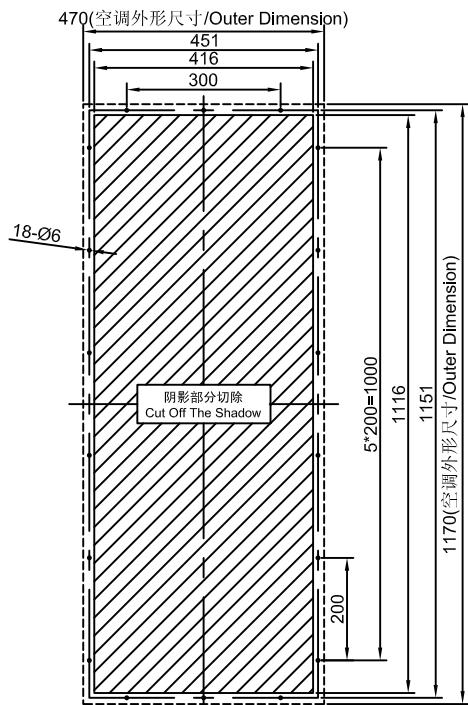


图2-防护罩建议结构
Figure 2-Air open design of cowling

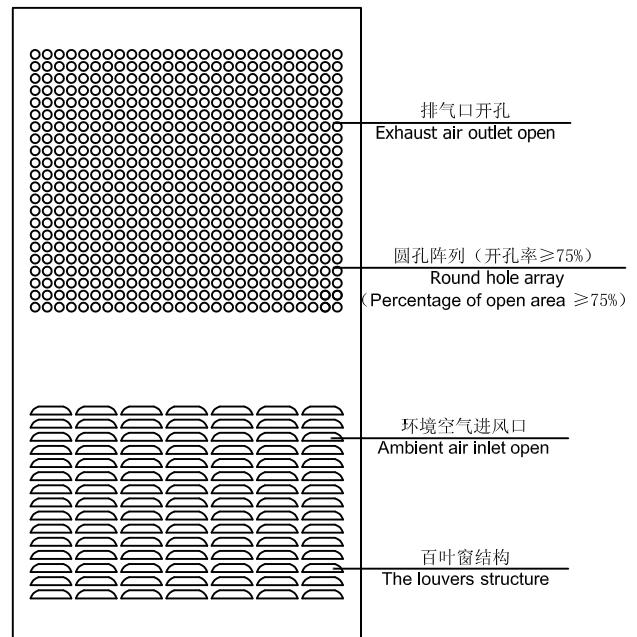
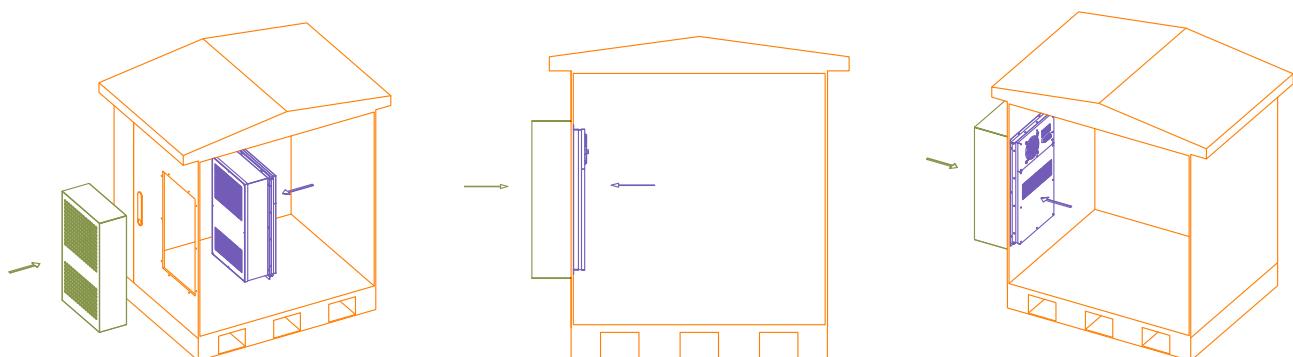


图3-安装示意图
Figure 3-Installation Instruction



注意:

本系列空调不需要安装防护罩,如果客户确实想安装防护罩,请遵循以下规则:

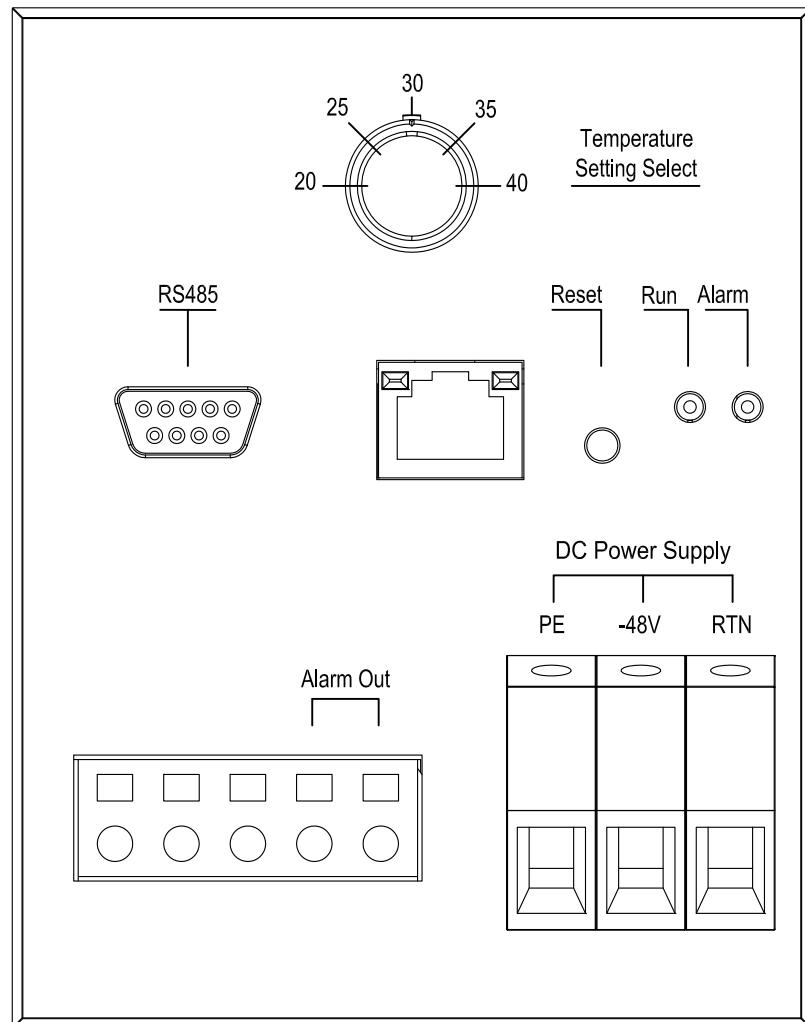
1. 防护罩由客户自备,防护罩的设计请参考图2;
2. 防护罩进风口和出风口开孔面积应足够大,以确保足够的循环风量,这对于延长空调的使用寿命和减少维护频率非常重要;
3. 防护罩的进出风口应该防止气流短路,以便空调可以获得最佳的冷却效果。

Attention:

This series air conditioner does not need a cowling, if customer does want to put a cowling outside unit, please follow below rules:

- 1.The cowling can be made by customer self, the design of cowling please refer to figure 2
2. The inlet and outlet open for ambient air in and exhaust air out should be big enough to ensure enough air volume circulation. This is very important to have the air conditioner running with long lifetime and less service.
3. When you make a cowling design/installation, make sure the inlet air and outlet air not been short cut, this is also critical to keep unit have best cooling performance.

接线端子说明/Terminal instructions



| 序号 / Number | 符号 / Symble | 定义 / Definition |
|-------------|-------------|---|
| 1 | RTN | 直流电源正极 Positive pole of DC power |
| 2 | -48V | 直流电源负极 Negative pole of DC power |
| 3 | PE | 直流电源地线 Ground wire of DC power |
| 4 | Alarm Out | 干接点告警输出端口 Port of dry contact alarm output |
| 5 | RS485 | RS485通讯口 RS485 communication |