

PDU8000 Low Voltage PDC-T  
Quick Guide

PDU8000 低压配电柜-T  
快速指南

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1 Precautions / 安全注意事项

1.1 Safety Precautions / 遵守所有安全注意事项

To ensure safety of humans and the equipment, pay attention to the safety symbols on the equipment and all the safety instructions in this document. The "NOTE", "CAUTION", and "WARNING" marks in this document do not represent all the safety instructions. They are only supplements to the safety instructions. When operating Huawei equipment, in addition to following the general precautions in this document, follow the specific safety instructions given by Huawei. Huawei will not be liable for any consequences that are caused by the violation of safety regulations and design, production, and usage standards.

为保障人身和设备安全，在安装、操作、维护设备时，请遵循设备上标识及手册中说明的所有安全注意事项。手册中的“安全警告”、“注意”、“说明”事项，并不代表所应遵守的所有安全事项，只作为所有安全注意事项的补充。在进行本公司产品、设备的各项操作时，必须严格遵守由华为公司提供的相关设备注意事项和特殊安全指示。手册中列出的“安全警告”仅代表了华为公司知道的部分，华为公司不承担任何因违反通用安全操作要求或违反设计、生产和使用设备安全标准而造成损失的责任。

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1.2 Local Safety Regulations / 遵守当地法规和规范

When operating the equipment, you must follow the local laws and regulations.  
操作设备时，应遵守当地法规和规范。

1.3 Personnel Requirements / 人员要求

Only qualified personnel are allowed to perform operations on the equipment. Operation personnel should understand the system, its working principles, and relevant national/regional standards.  
设备所有操作必须由具备作业资质的人员进行。操作人员应充分熟悉整个系统的构成、工作原理及项目所在国家/地区的相关标准。

Before installation, get familiar with the following documents: Parts documents.  
安装开始前，确保已经学习并掌握了除本文档以外的以下文档信息：随货的其它部件资料。

1.4 Human Safety / 人身安全

To ensure human safety, connect the ground cable first when connecting cables.  
配电柜接线时，需按照本指南指导的接线顺序，首先安装地线以确保人身安全。

Only trained and qualified personnel are allowed to install, operate, and maintain Huawei equipment, and they must understand basic safety precautions to avoid hazards.  
系统接线的操作人员必须具备基本的安全操作知识，需经过培训，掌握正确的操作方法，并具有相应作业资格。

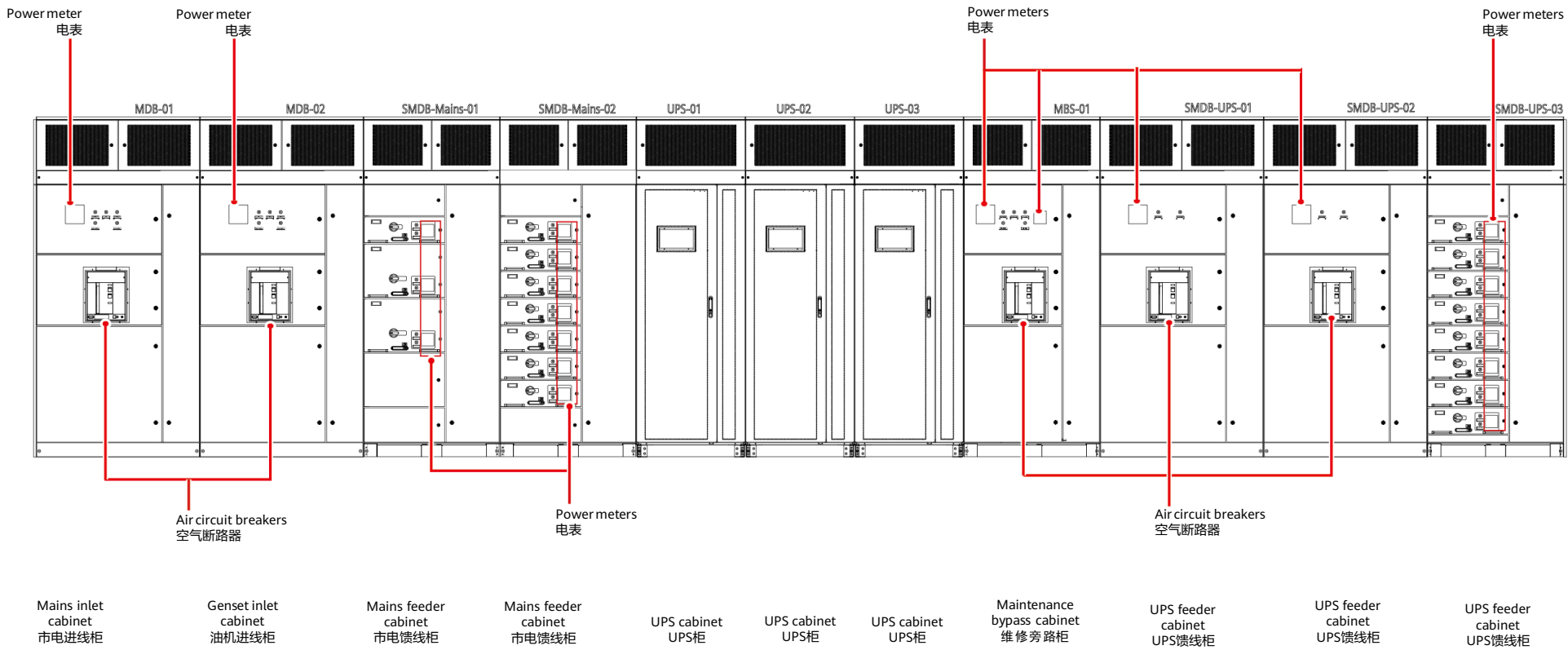
Wear dedicated personal protective equipment during operations. Use dedicated insulated tools during electrical operations.  
作业过程中必须佩戴专用防护用具。电气作业过程中必须使用专用绝缘工具。

After the installation and commissioning, do not open the rear door or side panel. Otherwise, electric shocks may occur.  
安装调测完成后，请勿擅自打开后门和侧板，否则会有触电的危险。

2 Tools / 安装工具



3 System Configuration / 系统配置图

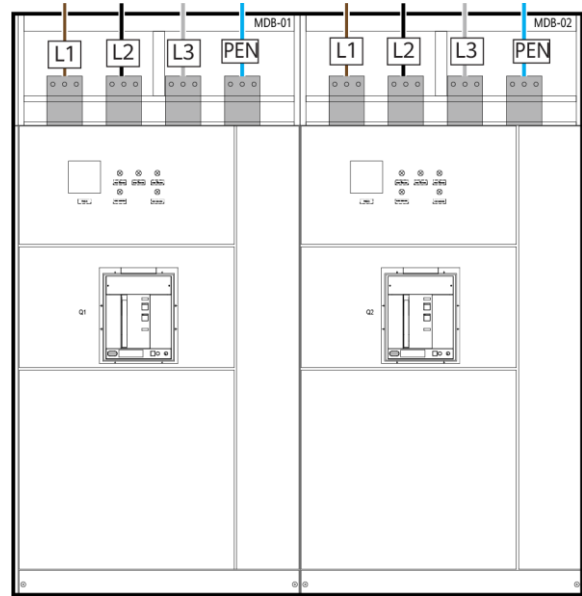


4 Installing Input and Output Cables / 安装输入输出线缆

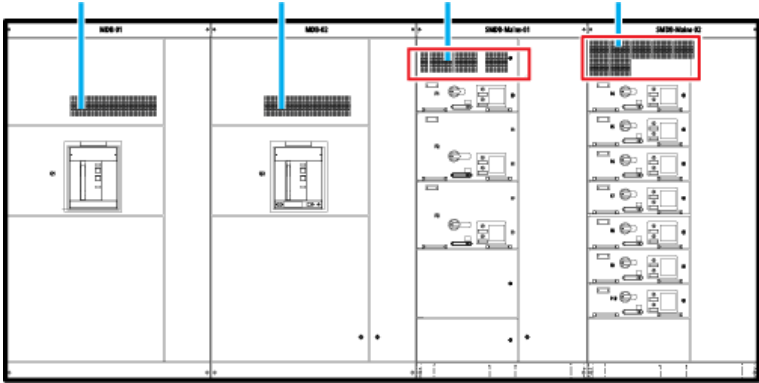
NOTE / 说明

- Cables can be routed in and out from the top. The ground terminal is identified by a ⚡ sign.  
进出线方式：上进上出。接地端子通常以 ⚡ 标识。
- The colors of the power cables for your reference. The local cable color standards prevail.  
线缆颜色仅供参考，请以当地电源线缆标准为准。
- The grey shaded area indicates the wiring area.  
灰色阴影区域为接线区域。
- For the definitions of wiring terminal blocks, see the Schematic Diagram delivered with the product.  
接线端子排定义参见随机附带的原理图。

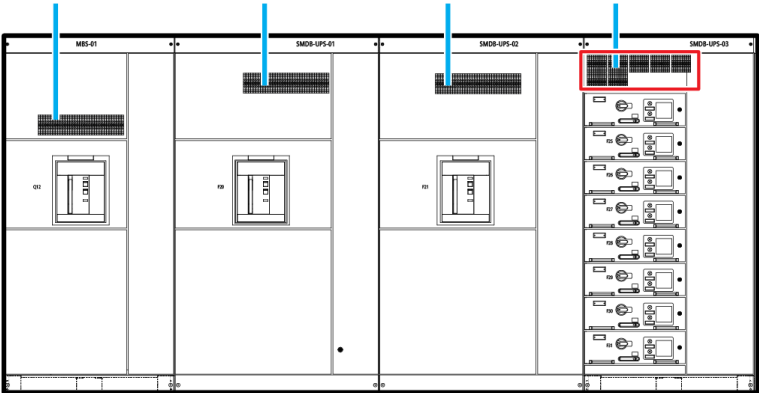
1. Input cables / 输入接线



2. Single cables / 信号线接线

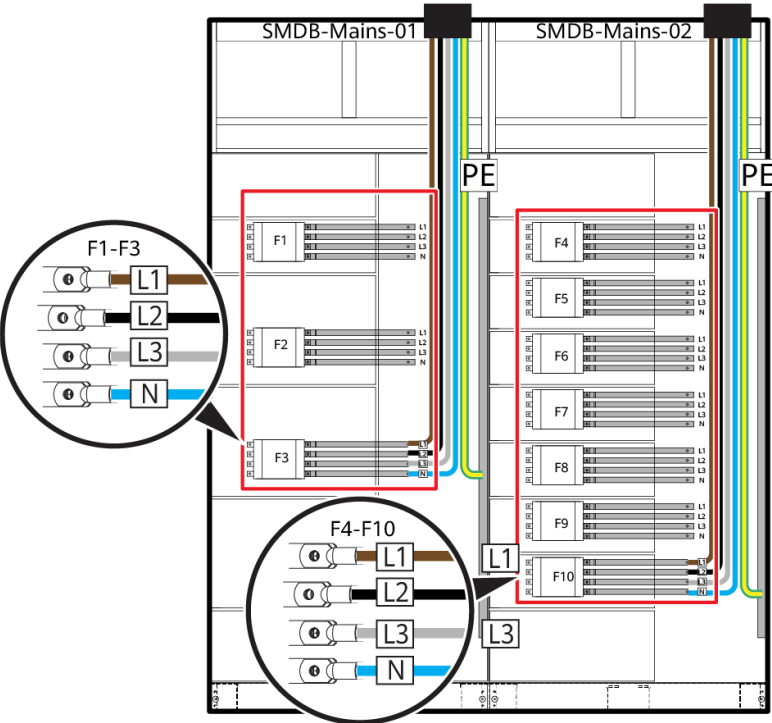


Front view of the PDC / 配电柜前视图

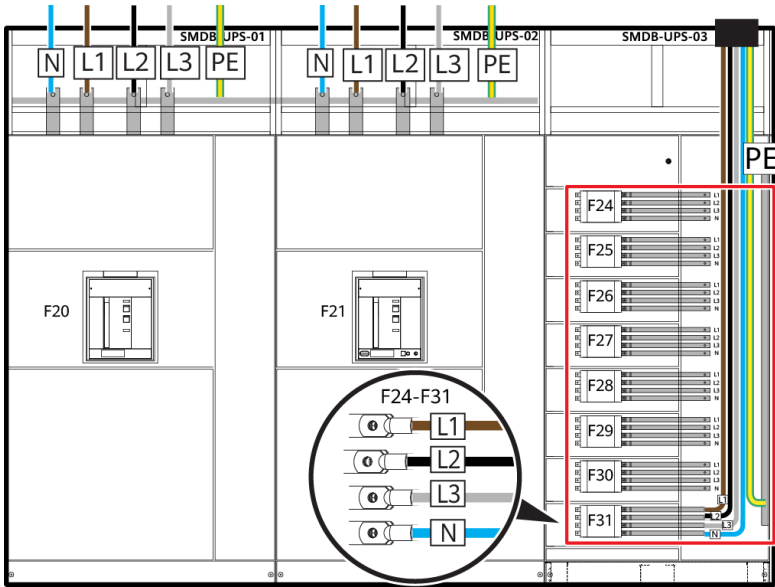


Front view of the PDC / 配电柜前视图

3. Output cables / 输出接线



Front view of the PDC / 配电柜前视图



Front view of the PDC / 配电柜前视图

5 Checking After Installation / 安装后检查

After the installation is completed, verify the items in the following tables before power-on.  
安装完成后, 在上电前, 请根据下表内容进行检查。检查合格后方可进行上电操作。

5.1 Electrical Connection Checklist / 电气连接检查

| No. / 编号 | Check That / 检查项                                                                                                      |
|----------|-----------------------------------------------------------------------------------------------------------------------|
| 1        | All cables are correctly connected based on the Schematic Diagram.<br>参考原理图, 检查所有接线是否正确。                              |
| 2        | Ground cables are securely connected.<br>检查地线是否已连接牢固。                                                                 |
| 3        | Redundant parts of the ground cables and power cables are cut off instead of coiled.<br>电源线、地线的余长应被剪除, 不能盘绕。          |
| 4        | Phase cables are connected properly.<br>各相位连线正确。                                                                      |
| 5        | Power cables and ground cables are routed and bundled separately from other types of cables.<br>电源线、地线在布放时应与其他电缆分开绑扎。 |
| 6        | All circuit breakers are OFF.<br>所有空开处于“OFF”状态。                                                                       |

5.2 Hardware Installation Checklist / 硬件安装检查

| No. / 编号 | Check That / 检查项                                                                                                                                  |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 1        | The cabinet is clean, without dust or sundries.<br>机柜清洁干净, 无灰尘、污物, 柜内无杂物。                                                                         |
| 2        | The paint on the cabinet exterior is intact. If paint flakes off, repaint that area immediately to avoid corrosion.<br>外部漆饰应完好, 如有掉漆, 立即补漆, 以防腐蚀。 |
| 3        | The cabinet door and lock work properly.<br>柜门开闭灵活, 门锁正常。                                                                                         |
| 4        | All labels are correct, clear, and complete.<br>各种安全警告标识正确、清晰、齐全。                                                                                 |
| 5        | The surrounding area of the cabinet contains no waste tape, cable ties, paper, or packing materials.<br>机柜周围不得有胶带、扎带线头、纸屑和包装袋等施工遗留物。              |

5.3 Cable Installation Checklist / 线缆安装检查

| No. / 编号 | Check That / 检查项                                                                                                                                                                                         |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1        | All bolts are tightened, especially the bolts used for electrical connection. Flat washers and spring washers are installed properly in the correct sequence.<br>所有螺栓都要拧紧(尤其要注意电气连接部分), 平垫、弹垫要齐全, 且不能装反。 |
| 2        | Cables are bundled neatly, and cable ties are secured evenly and properly in the same direction.<br>电缆绑扎应整齐美观, 线扣间距均匀, 松紧适度, 朝向一致。                                                                       |
| 3        | Cables are routed for ease of future maintenance and expansion.<br>电缆布放应便于维护和将来扩容。                                                                                                                       |
| 4        | There is no unnecessary adhesive tape or cable tie on the cables.<br>线缆上无多余胶带、扎带等遗留。                                                                                                                     |
| 5        | Exposed parts near the wiring terminals and lugs are wrapped in PVC insulation tape or heat shrinking tubing.<br>接线端子处的裸线及线鼻柄应用绝缘胶带缠紧, 或套热缩套管, 不得外露。                                                     |
| 6        | The cable routing for power cables and monitoring cables meets the requirements for routing power cables and signal cables and complies with the cable routing plan.<br>电源线走线和监控线走线满足强弱电走线要求, 符合系统走线规划。  |

6 Powering On and Commissioning / 上电调测

- Perform an impact test on the cable inlet switch before operating the switch for the first time.  
首次操作进线开关, 需进行冲击试验:  
① Swing the ACB to the TEST position and perform the switch-on and switch-off impact tests.  
将ACB摇至TEST位, 进行合闸和分闸冲击测试。  
② Swing the ACB to the CONNECT position and perform the switch-on and switch-off impact tests.  
将ACB摇至CONNECT位, 进行合闸和分闸冲击测试。  
③ After the test is complete, ensure that the ACB is in the OFF state.  
完成测试后, 确保ACB处于分闸状态。
- Turn on the cable inlet switch and check the indicator to ensure that the cable inlet switch is normally turned on.  
合闸进线开关, 查看指示灯, 确认进线开关已正常合闸。
- Check that no voltage abnormality alarm (such as open phase, reverse phase sequence, overvoltage, or undervoltage) is generated for the cable inlet switch.  
确认进线开关无电压异常告警(缺相、相序反、过压、欠压等)。
- Power on all UPSs.  
将所有UPS开机上电。
- Turn on the feeder switches in sequence and ensure the input voltage of the load power meets the requirements.  
依次闭合馈线开关, 确认负载电源输入的电压满足要求。

This guide is for reference only. The actual product may vary.  
本指南仅供参考, 内容如有改动, 请以实物为准。

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