

华为APM30室外一体化电源柜，

产品名称	华为APM30室外一体化电源柜，
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产品详情

华为APM30室外一体化电源柜基本介绍

产品说明

华为通信电源APM30,华为APM30H室外一体化机柜

TD-RAN APM30 APM30H功能与配置.

APM30 APM30H为华为无线产品室外应用提供配套解决方案：可为分布式基站提供室外应用的直流供电和备电功能，同时提供BBU以及传输设备户外安装的解决方案。

参数

指标

备注

机柜重量

?65?kg

不包括蓄电池组 and 用户传输设备

用户设备安装空间 (宽 × 高 × 深)

内置48V?12Ah?或48V?24Ah蓄电池组时：482.6mm × 222.25mm × 310mm (宽19inch，高5U，深310mm) ?

不内置蓄电池组时：482.6mm × 311.15mm × 310mm (宽19inch，高7U，深310mm)

不内置蓄电池组时，底部3U空间的深度为290mm，且不支持用户设备的后部散热。

BBU需要占用2U；

24Ah支持S333典型配置1h备电。

？

分布式基站应用情况：

直流输出

直流供电单元

空气开关规格

空开数量

6路一次下电输出RRU20A6

由6个20A空开分别控制6路直流输出向6个RRU供电

4路二次下电输出BBU12A1

由1个12A空开控制1路直流输出向BBU供电FAN12A1

由1个12A空开控制1路直流输出向风扇供电TM4A2

由2个4A空开控制2路直流输出向传输设备供电

APM30扩展电池柜内置大容量蓄电池，可满足分布式基站长时间的备电需求。

APM30扩展电池柜参数说明:

机柜重量 ？40?kg

不内置蓄电池组

蓄电池重量

支持48V?50Ah或48V?92Ah前维护蓄电池组；

12V?50Ah蓄电池单体:21.5kg?

12V?92Ah蓄电池单体:33.5kg?

可并联扩展至

48V?100Ah（2组48V?50Ah蓄电池组）；

48V?184Ah（2组48V?92Ah蓄电池组）

APM30扩展传输柜可为用户设备提供直流供电和安装空间。

APM30扩展电池柜参数说明:

参数，指标，备注

机柜重量： 41kg（不包括用户设备）

用户设备安装空间（宽×高×深）

提供11U的用户设备安装空间（不包括底部3U空间）482.6mm×355.6mm×310mm（宽19inch，高8U，深310mm）

底部3U空间：482.6mm×133.35mm×290mm（宽19inch，高3U，深290mm），且不支持用户设备的后部散热深度指机柜立柱到机柜后壁的距离

APM30内部提供7U高的空间安装BBU和传输设备，利用嵌入式电源系统给分布式基站和传输设备提供-48V直流供电，同时给蓄电池充电。无市电时，由APM30的内置蓄电池组或外接扩展电池柜中的蓄电池组向分布式基站和传输设备提供-48V的直流供电。

分布式基站的典型配置情况为：1BBU+3RRU。

1加热盒（1U）

2假面板(1U)

3PDU模块(2U)

4电源插框(3U)

5APMI单板

6风扇

APM30配电柜部件：

配电柜部件包括APMI单板、AFMU单板、PDU模块、PMU模块、PSU模块（AC/DC）、内置蓄电池和传感器，其中内置蓄电池为选配设备。

APMI单板 APMI为电源监控防雷转接板，位于机柜左上角。

AFMU单板 AFMU为风扇环境监控单元，安装在机柜的右上角。

PDU模块 PDU模块为电源分配单元，可实现交流配电功能和直流配电功能。

PMU模块 PMU模块为电源环境监测单元，提供完善的电源系统管理、配电检测和上报告警功能。

PSU模块（AC/DC） PSU模块为电源供电单元，支持将220V AC转换成-48V DC。

配电柜蓄电池 APM30配电柜内置蓄电池的外形和配置。

APM30传感器 APM30传感器包括门禁传感器和温度传感器。

APMI单板功能

APMI单板（APM Power Monitor unit Interface Board）即APM30电源监控防雷转接板，APMI单板位于APM30机柜左侧位置。

APMI单板作为监控防雷转接板，具备以下功能：

实现对APM30串口通信信号、开关量输入输出信号、环境监控信号的转接。

实现对干结点输入/输出、485串口信号（与BBU主控板相连）的防护。

APMI单板上的接口完成信号转接与防雷保护，APMI单板接口根据位置不同，可分成外部接口和内部接口。

接口名称

连接器类型

数量

接口用途

RS422

RS485电缆连接器

连接配电柜PMU监控信号线

TX+、TX-、

RX+、RX-

2-pin?连接器

连接主控板与APMI单板的485串口信号

IN1-IN3

连接干结点告警输入

OUT1

连接光耦告警输出

AFMU单板

AFMU(APM Fan Monitor unit Interface Board)单板为风扇环境监控单元，可完成风扇的供电和监控以及环境温度的监控。

AFMU单板功能列表如下：

为机柜顶部的2个风扇分别提供直流供电和告警上报功能。

实现环境温度传感器、进风口温度传感器、出风口温度传感器的告警上报功能。

AFMU单板上的告警信号通过转接板信号线传输到APMI单板并终上报到主控板（BBU）。

序号

ALM

连接AFMU监控信号线

DC?INPUT

连接AFMU单板直流电源线

华为APM30，华为通信电源APM30,华为APM30H室外一体化机柜

华为通信电源,华为开关电源,华为整流模块,华为开关电源模块,华为网络机柜,华为服务器机柜,华为壁挂电源,华为直流电源,华为一体化开关电源,华为高频开关电源,华为室外电源机柜,华为室内电源机柜,华为开关电源,华为一体化机柜,华为室外一体化电源柜,华为48v开关电源.

Introduction of Huawei APM30 Outdoor Integrated Power Supply Cabinet

Product description

Huawei Communication Power APM30, Huawei APM30H Outdoor Integrated Cabinet

Function and configuration of TD-RAN APM30 APM30H.

APM30 APM30H provides a complete solution for Huawei's outdoor applications of wireless products: it can provide DC power supply and standby functions for outdoor applications for distributed base stations, as well as BBU and transmission equipment outdoor installation solutions.

parameter

index

Remarks

Cabinet weight

Less than? 65 kg?

Excluding battery packs and user transmission equipment

Installation space of user equipment (width * height * depth)

When built-in 48V? 12Ah? Or 48V? 24Ah battery pack: 482.6MM * 222.25mm * 310mm (width 19 inch, height 5 U,

depth 310mm)?

Without built-in battery pack: 482.6 mm *311.15 mm *310 mm (width 19 inch, height 7 U, depth 310 mm)

Without built-in battery packs, the depth of the bottom 3U space is 290mm, and the rear heat dissipation of user equipment is not supported.

BBU needs to occupy 2U;

24Ah supports typical S333 configuration with 1H standby power.

Distributed Base Station Applications:

DC output

DC power supply unit

Specification of air switch

Open Quantity

6-way primary power-off output

RRU

???????? 20A

????????6

Power supply to 6 RRUs by 6 20A open control 6 DC outputs

4-way secondary power-down output

???????? BBU

???????? 12A

????????1

Power Supply to BBU by 1 12A Open Control 1 DC Output

???????? FAN

Power Supply to Fan by 1 12A Open Control 1 DC Output

???????? TM

???????? 4A

????????2

Power supply to transmission equipment by 2 4A open control 2 DC output

APM30 expands the battery cabinet with built-in large capacity batteries to meet the long-term standby requirements of distributed base stations.

APM30 Expanded Battery Cabinet Parameters Description:

Less than? 40 kg?

No built-in battery pack

Battery weight

Supports maintenance of batteries before 48V? 50Ah or 48V? 92Ah;

12V? 50Ah battery monomer: 21.5kg?

12V? 92Ah battery monomer: 33.5kg?

Parallel extension to

48V? 100Ah (two 48V? 50Ah batteries);

48V? 184Ah (two 48V? 92Ah batteries)

APM30 Extended Transmission Cabinet can provide DC power supply and installation space for user equipment.

Less than? 41?Kg

Excluding user equipment

Provide 11U installation space for user equipment

Excluding the bottom 3U space: 482.6MM * 355.6mm * 310mm (19 inch wide, 8U high, 310mm deep)?

Bottom 3U space: 482.6MM * 133.35mm * 290mm (width 19 inch, height 3 U, depth 290mm), and does not support the rear heat dissipation of user equipment.

Depth refers to the distance between the cabinet post and the back wall of the cabinet?

APM30 provides 7U high space to install BBU and transmission equipment, and uses embedded power supply system to provide - 48V DC power supply to distributed base stations and transmission equipment, while charging batteries.

When power is not available, the built-in battery pack of APM30 or the battery pack in the external extended battery cabinet provide - 48V DC power supply to the distributed base station and transmission equipment.

The typical configuration of distributed base stations is 1BBU+3RRU.

1? Heating box (1U)

2? False panel (1U)

3? PDU module (2U)

4? Power socket (3U)

5? APMI veneer

6? Fans

APM30 Distribution Cabinet Components:

Distribution cabinet components include APMI single board, AFMU single board, PDU module, PMU module, PSU module (AC/DC), built-in battery and sensor, in which built-in battery is the optional equipment.

APMI single board APMI is a lightning protection switch board for power supply monitoring, located in the upper left corner of the cabinet.

The single-board AFMU is a fan environment monitoring unit, which is installed in the upper right corner of the cabinet.

PDU module PDU module is a power distribution unit, which can realize AC and DC distribution functions.

PMU module is a power environment monitoring unit, which provides perfect power system management, distribution detection and alarm reporting functions.

PSU module (AC/DC) PSU module is the power supply unit, which supports the conversion of 220V AC to - 48V DC.

Distribution Cabinet Battery APM30 Distribution Cabinet built-in battery shape and configuration.

APM30 sensor APM30 sensor includes access control sensor and temperature sensor.

APMI Single Board Function

APMI veneer (APM Power Monitor Unit Interface Board) is APM30 power supply monitoring lightning protection adapter board, APMI veneer is located on the left side of APM30 cabinet.

APMI veneer as a lightning protection switch board has the following functions:

It realizes the transfer of APM30 serial communication signal, switching input and output signal and environmental monitoring signal.

It realizes the protection of input/output of trunk node and 485 serial port signal (connected with BBU main control board).

APMI veneer interface completes signal transfer and lightning protection. APMI veneer interface can be divided into external interface and internal interface according to its location.

Interface name

Connector type

Number

Interface use

RS485 cable connector

One

Connecting PMU Monitoring Signal Line of Distribution Cabinet

TX+, TX-,

RX+, RX-

2-pin? Connector

Two

485 Serial Port Signal Connecting Main Control Board and APMI Single Board

Three

Connect trunk node alarm input

Connect optocoupler alarm output

AFMU veneer

The single board of the AFMU (APM Fan Monitor Unit Interface Board) is the fan environment monitoring unit, which can complete the fan power supply and monitoring as well as environmental temperature monitoring.

The list of the functions of the single board of the AFMU is as follows:

For the two fans on the top of the cabinet, DC power supply and alarm reporting functions are provided respectively.

Realize the alarm reporting function of environmental temperature sensor, air inlet temperature sensor and air outlet temperature sensor.

The alarm signal on the single board of AFMU passes through the switch board.

本公司专业致力于华为、艾默生、中兴电源柜的研究，为客户提供全程一站式服务，我公司可以根据客户的具体特点和需求量身定做不同型号的通信电源柜，具体包括设计--选型--安装等跟踪指导，客户的需求就是我们的工作，做各类通信电源柜我们更专业。