

# UPS setting

## UPS ?

UPS (Uninterruptible Power Supply) (不间断电源) 是用于在停电时提供备用电源的设备，通常由电池供电。它可以在主电源失效时，为连接的设备提供持续的电力，防止数据丢失或设备损坏。UPS 通常分为两种类型：DC 输出和 sine AC 输出。

24 小时不间断运行，确保在停电时设备仍能正常工作。

UPS 类型	输出类型	适用场景
在线式 UPS	AC + DC 输出	服务器、数据中心
后备式 UPS	DC 输出 + AC	个人电脑、家用设备
在线互动式 UPS	AC 输出 (AC-DC-AC)	工业设备、医疗设备

## UPS 安装

UPS 安装时，请确保 UPS 与设备之间有良好的接地。ups 设备通常通过 usb cable 连接到设备。安装时，请确保 ups 设备与设备之间的连接正确。unraid 系统可以通过 ups agent 来管理 UPS。

安装时，请确保 ups 设备与设备之间的连接正确。usb cable 连接到设备。unraid 系统可以通过 ups agent 来管理 UPS。

UPS 设备通常通过 NUT 系统来管理。ups 设备通过 usb 连接到 NUT master。NUT slave 设备可以通过网络连接到 NUT master。

[NUT](#) (Network UPS tools) 是一个开源的 UPS 管理软件。它支持多种 UPS 设备，包括 PDU。NUT 可以通过 ups 设备连接到设备。unraid 系统可以通过 NUT 来管理 UPS。PeaNUT 是一个基于 Docker 的 NUT 管理界面。

## 配置

ups 设备通常通过 24 小时不间断运行。24 小时不间断运行，确保在停电时设备仍能正常工作。docker 容器可以方便地安装和管理 NUT。

ups usb rpi .

```
lsusb | grep -i ups # ??? ???? ups? ???? ?? ??
```

ups rpi .

```
root@amati-common:/home/preserde#  
root@amati-common:/home/preserde# lsusb | grep -i ups  
Bus 004 Device 002: ID 051d:0003 American Power Conversion UPS  
root@amati-common:/home/preserde#
```

vender id 051d product id 0003 . docker compose

```
services:  
  nut-upsd:  
    image: instantlinux/nut-upsd:latest  
    container_name: nut-upsd  
    restart: unless-stopped  
    ports:  
      - "3493:3493"  
    environment:  
      - TZ=Asia/Seoul  
      - API_USER=upsmon  
      - API_PASSWORD=upsmon # need to change if server expose  
      - DRIVER=usbhid-ups  
      - GROUP=nut  
      - NAME=ups  
      - POLLINTERVAL=15  
      - PORT=auto  
      - SERVER=master # master mode  
      - VENDORID=051d # lsusb  
      - DESCRIPTION=APC Smart-UPS SMT750RMI2UC  
    devices:  
      - /dev/bus/usb:/dev/bus/usb  
    privileged: true  
    volumes:  
      - nut-config:/etc/nut  
    healthcheck:  
      test: ["CMD", "upsc", "ups@localhost"]  
      interval: 30s  
      timeout: 10s  
      retries: 3  
  peanut:  
    image: brandawg93/peanut:latest  
    container_name: PeaNUT  
    restart: unless-stopped  
    depends_on:  
      - nut-upsd  
    environment:  
      WEB_PORT: 8080  
    ports:  
      - "8080:8080" # Access the dashboard at http://localhost:8080  
    volumes:  
      - /path/to/config:/config
```

```
volumes:
  nut-config:
```

```
root@amati-common:/data/nut# nano docker-compose.yml
root@amati-common:/data/nut# docker compose up
[+] up 8/8
✓ Image instantlinux/nut-upsd:latest Pulled 5.2s
✓ Network nut_default Created 0.0s
✓ Volume nut_nut-config Created 0.0s
✓ Container nut-upsd Created 0.2s
```

```
root@amati-common:/data/nut# nano docker-compose.yml
root@amati-common:/data/nut# docker compose up
[+] up 8/8
✓ Image instantlinux/nut-upsd:latest Pulled 5.2s
✓ Network nut_default Created 0.0s
✓ Volume nut_nut-config Created 0.0s
✓ Container nut-upsd Created 0.2s
Attaching to nut-upsd
nut-upsd | ** This container may not work without setting for SERIAL **
nut-upsd | Network UPS Tools upsdrvctl - UPS driver controller 2.8.3 release
nut-upsd | Network UPS Tools 2.8.3 release - Generic HID driver 0.62
nut-upsd | USB communication driver (libusb 1.0) 0.50
nut-upsd | interrupt pipe disabled (add 'pollonly' flag to 'ups.conf' to get rid of t
his message)
nut-upsd | Using subdriver: APC HID 0.100
nut-upsd | Listening on socket /var/run/nut/usbhid-ups-ups
nut-upsd | Network UPS Tools upsd 2.8.3 release
nut-upsd | Ignoring invalid pid number 0
nut-upsd | listening on 0.0.0.0 port 3493
nut-upsd | Connected to UPS [ups]: usbhid-ups-ups
nut-upsd | Found 1 UPS defined in ups.conf
nut-upsd | Network UPS Tools upsmon 2.8.3 release
nut-upsd | Ignoring invalid pid number 0
nut-upsd | Using power down flag file /etc/killpower
nut-upsd | UPS: ups@localhost (primary) (power value 1)
```

```
load 0.00 0.00 0.00
```

```
APC ups 0 0 modbus 0 0 upsd 0 0 load 0.00
0.00 0.00 . nut-upsd -> peanut -> homepage dashboard 0 load NaN
0.00 0.00 0.00 .
```

<https://forums.unraid.net/topic/74208-apc-smartups-setup/#comment-736429>



[[[ APC UPS ]]] ]]] modbus[ ]]]] [ ] [ ] .

1. [ ] [ ] [ ] [ ] UPS[ ] [ ] [ ] [ ] [ ] .
2. [ ] [ ] [ ] ModBus[ ] [ ] [ ] [ ] [ ] .
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