# UPSMON PRO V2.48

UPS Monitoring Software

User's Manual

# Contents

## 0. Overview

UPSMON PRO is compatible with the following windows :

1. Windows XP, Vista, 7, 8, and 10 (32-Bit and 64-Bit)

2. Windows Server 2000, 2003, 2008, 2012, 2016, and Hyper-V (32-Bit and 64-Bit)

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NOTE: administrator authority is necessary to execute at windows here

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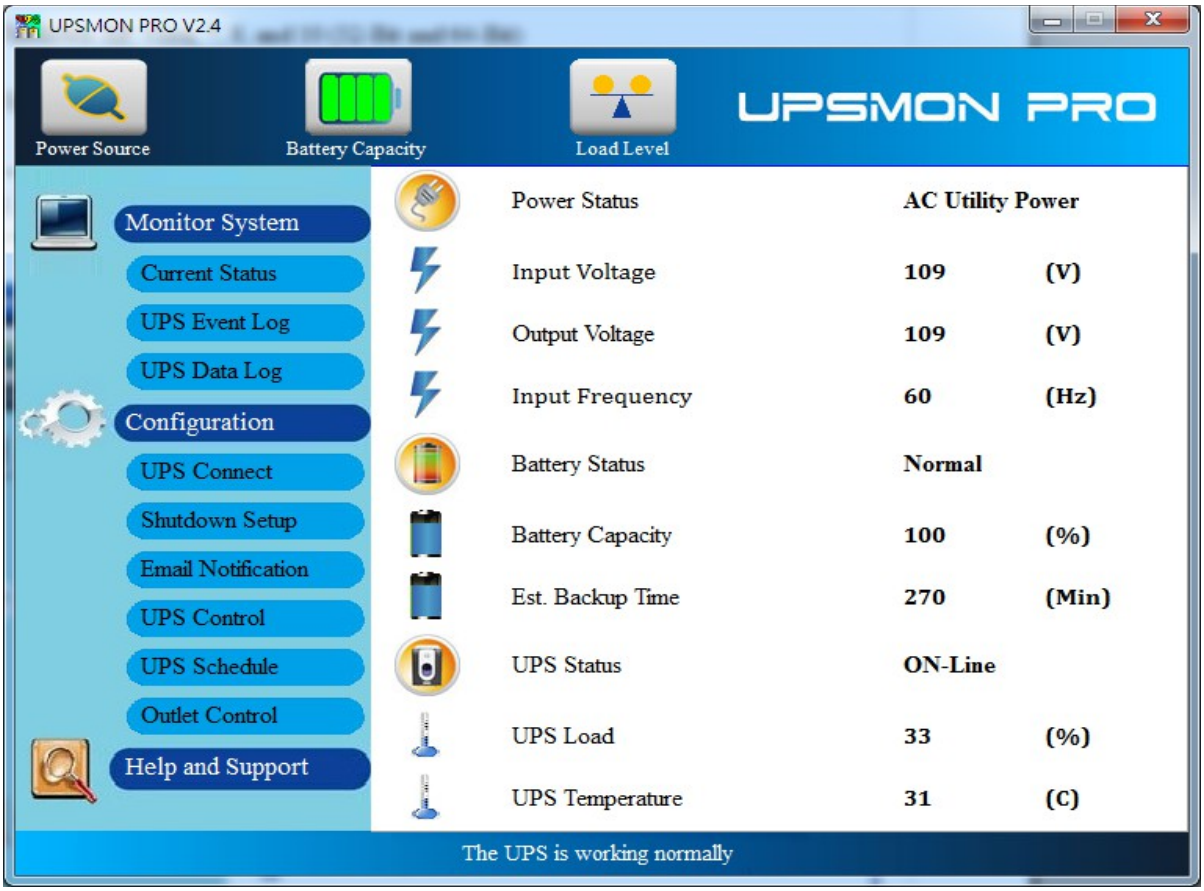

## A. UPS Connecting

To start the ups connection :

1. Connect Page
2. Choose the ups connecting interface :

   2.1 **USB Port**

   2.2 **SNMP Card** : Fill in the snmpcard ip address

   2.3 **COM Port** : The serial port cable is attached from the ups box

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   NOTE: The serial port cable is not suitable from the others
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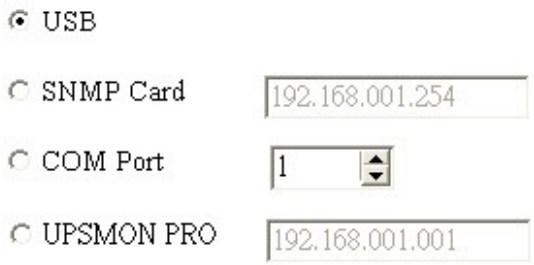
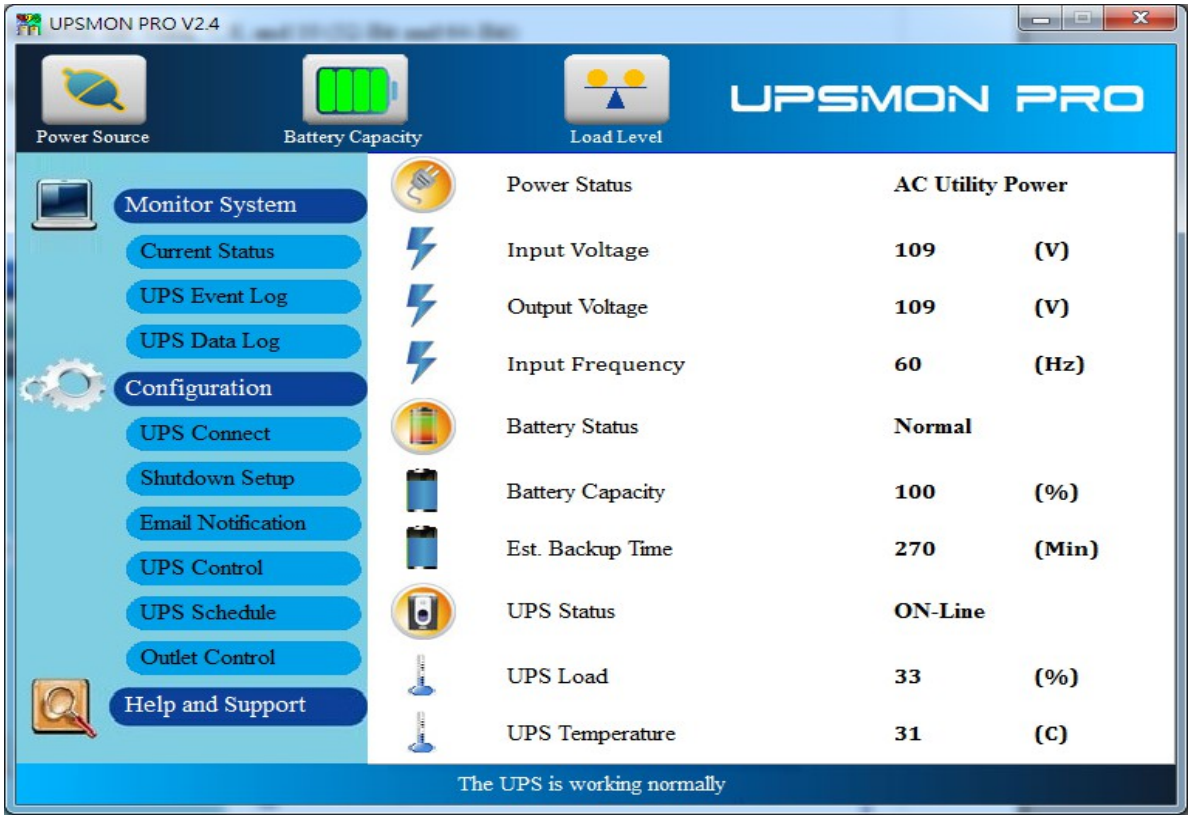
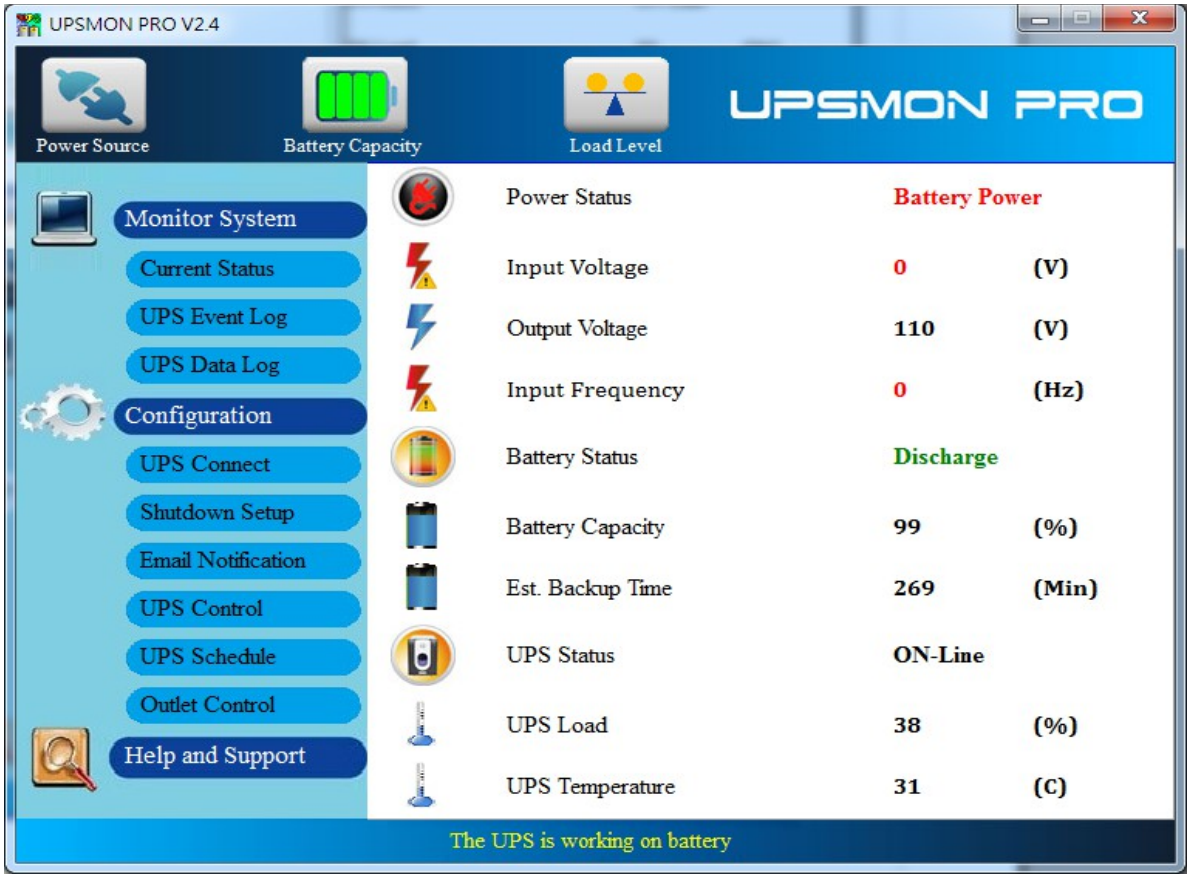
   2.4 **UPSMON PRO** : Fill in the upsmon-pro computer ip address



3. Then you will successfully get the ups monitoring as below :

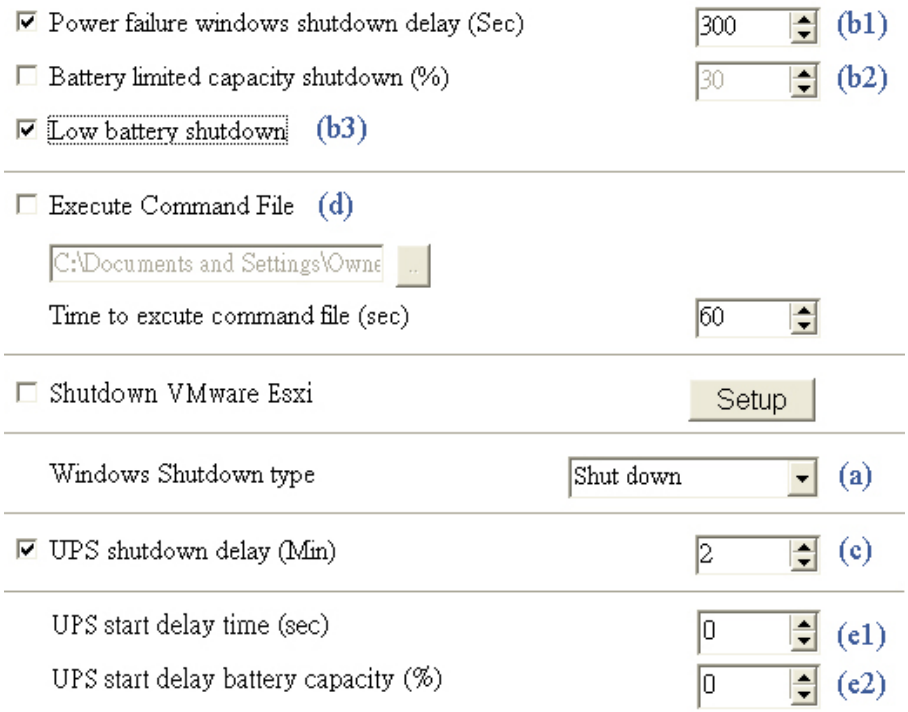


## B. Shutdown Configuration

Below steps guides you shutdown windows and ups when power failure occurs :

1. Run Time Page




2. Windows shutdown type **(a)**

   2.1 **None** : No any reaction for windows even the blackout condition

   2.2 **Shut down** : Running out of the procedures to save the programs to hard disk

   2.3 **Hibernate** : Power-saving state and puts open documents and programs on hard disk

3. **Power failure windows shutdown delay (b1)** : After this period of time runs out, windows start to act shutdown
   **Battery limited capacity shutdown (b2)** : Once the battery is declining to this level, windows start to act shutdown

   **Low battery shutdown (b3)** : If the condition of battery is low, the windows act shutdown

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   Any one of the(b1,2,3)item-conditions is fulfilled, upsmon execute windows shutdown or hibernate at once
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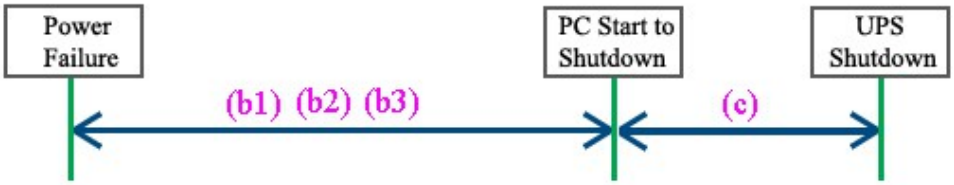
4. **UPS shutdown delay (c)** : This duration is affording to completely shutdown the computer




5. **Execute command file (d)** : when (b1) seconds runs out, upsmon will start to act your designate command

   5.1 **Time to execute command file** : your command have such more seconds to run. And then upsmon commit windows shutdown

6. **Ups start delay time (e1)** : To charge the more power, the ups will delay its power supply

   **Ups start battery capacity (e2)** : To charge the more power, the ups will supply its power when the battery ascend to this capacity %

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   Only both of the**(e1, 2)** item-conditions is fulfilled, ups will start to supply its power

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## C. Email Notification

It supplies an active E-Mail notification :

1. Notification Page
2. Enter your SMTP Mail server's information
   (ex : SMTP Server, User name, Port, Authentication, Sender's mail, Receiver's mail)
   ---
   NOTE : This feature requires your e-mail account support SMTP Server
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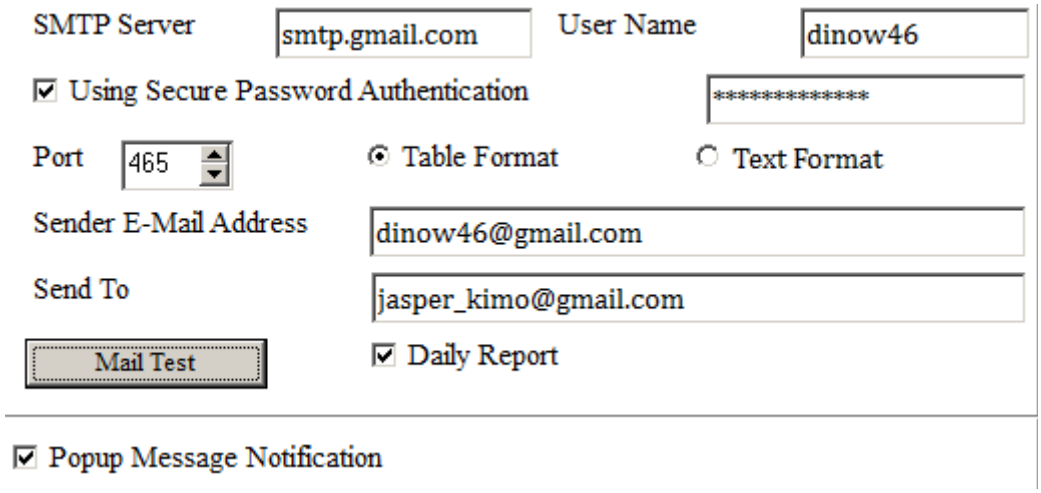
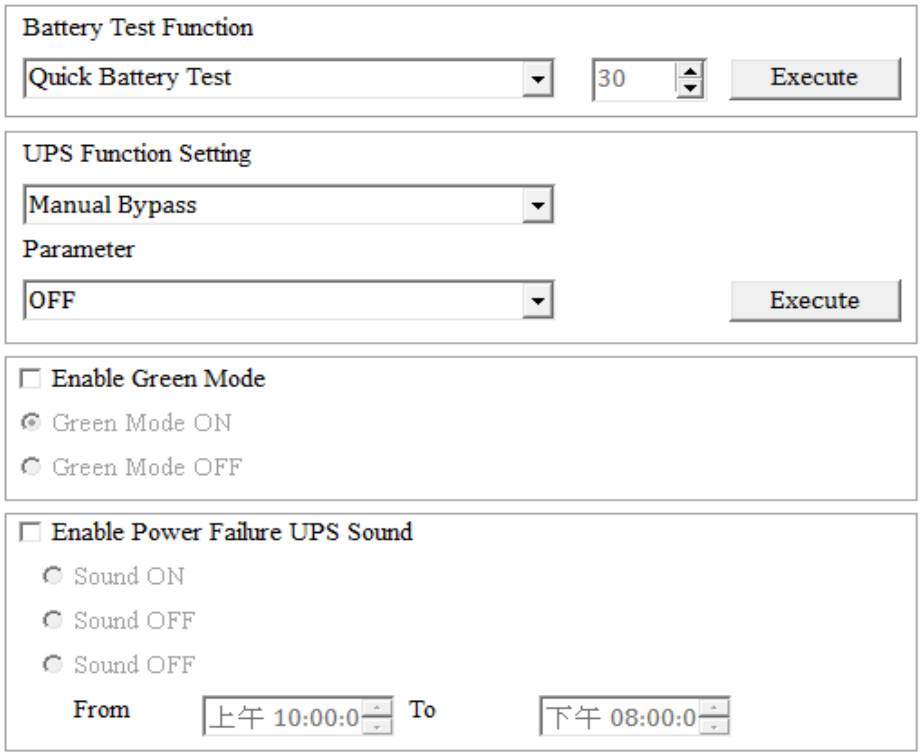
4. Button **Mail Test** : It helps you to check the email configuration is okay or not
5. Checkup **Daily Report** : It reports you the summary ups output power (Watt)



## D. UPS Control

1. UPS Control Page




2. Battery Test Function

   2.1 **Quick Battery Test** : Ups switch its power from battery

   2.2 **Battery Test for Specific Time** : Exhaust the battery power for this period of time

   2.3 **Test for Specific Battery Level** : Exhaust the battery capacity to this battery level

   2.4 **Deep Battery Test** : Exhaust the battery to low condition

   2.5 **Cancel Test** : Stop battery testing

3. **UPS Function Setting** : Select the function to set the UPS, there will be the corresponding parameter options, and then press Execute button to set the selected function

4. **Green Mode** :
   **ON** : The ups automatically turn off its power if the load is low
   **OFF** : UPS will sustain the power to its limit

5. **Power Failure UPS Sound** : Turn on and off the alarm in your desire

## E. Historical Event

It displays all ups events which taken place

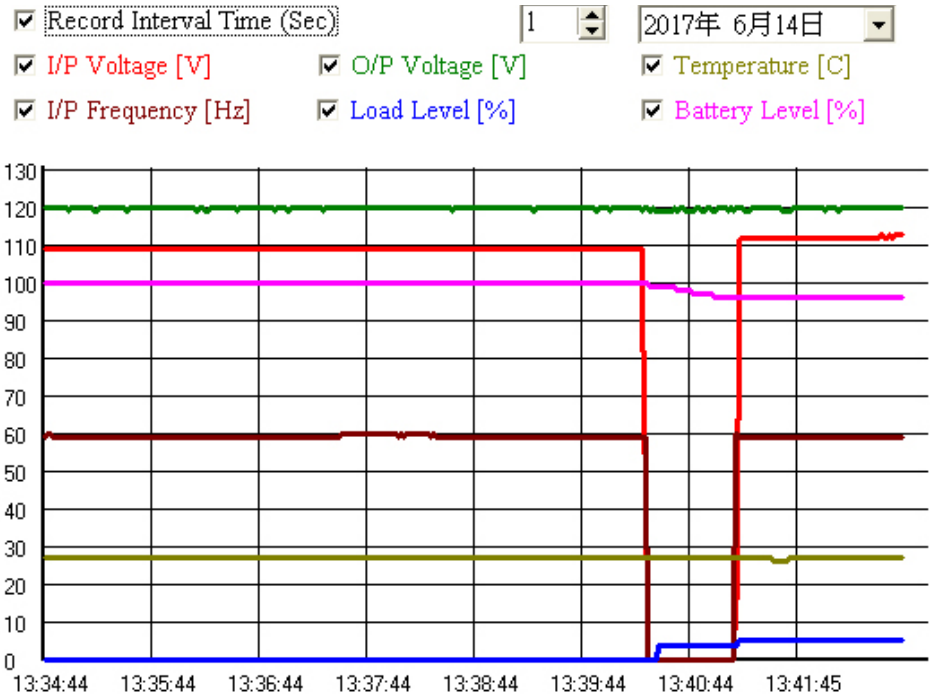
| Event Date Time | Event Description |
|---|---|
| 2017/6/13 下午 03:37:49 | UPS Shutdown |
| 2017/6/13 下午 03:35:49 | System Shutdown |
| 2017/6/13 下午 03:31:28 | Connection Error |
| 2017/6/13 下午 03:30:51 | Power Failure |
| 2017/6/13 下午 03:23:31 | UPS Bypass Recover |
| 2017/6/13 下午 03:22:35 | UPS Bypass |
| 2017/6/13 下午 02:49:26 | Pro Connection Restore |
| 2017/6/13 下午 02:39:01 | Pro Connection Error |
| 2017/6/13 下午 02:09:31 | UPS Bypass Recover |
| 2017/6/13 下午 02:09:12 | UPS Bypass |
| 2017/6/13 下午 02:08:54 | Power Restore |
| 2017/6/13 下午 02:08:33 | Power Failure |
| 2017/6/13 下午 02:08:12 | Battery Normal |
| 2017/6/13 下午 02:08:01 | UPS Self Test |
| 2017/6/13 下午 02:07:43 | Battery Normal |

## F. Record Viewer

1. Record Viewer Page

2. It records and actively shows UPS information : I/P Voltage, I/P Frequency, O/P Voltage, Battery Level, Load, and Temperature

3. As well you can check up the historical data by **calendar** (Upper Right Corner)



## G. Outlets Control

1. Outlets – Control Page

2. Turn ON/OFF the outlets power at once

3. Set up the UPS-Outlet shutdown sequence for blackout condition

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NOTE: This feature requires the specific UPS to support

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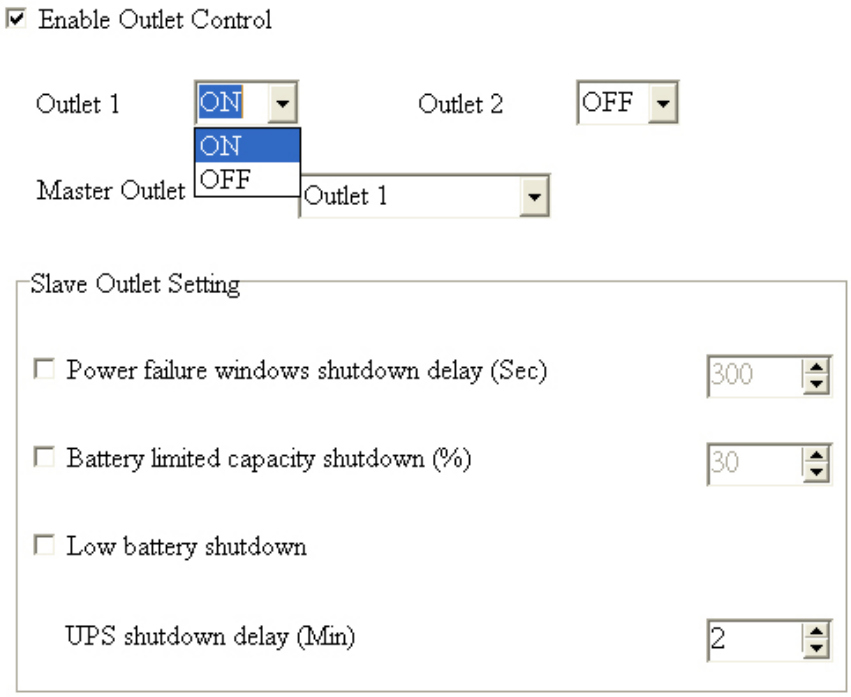


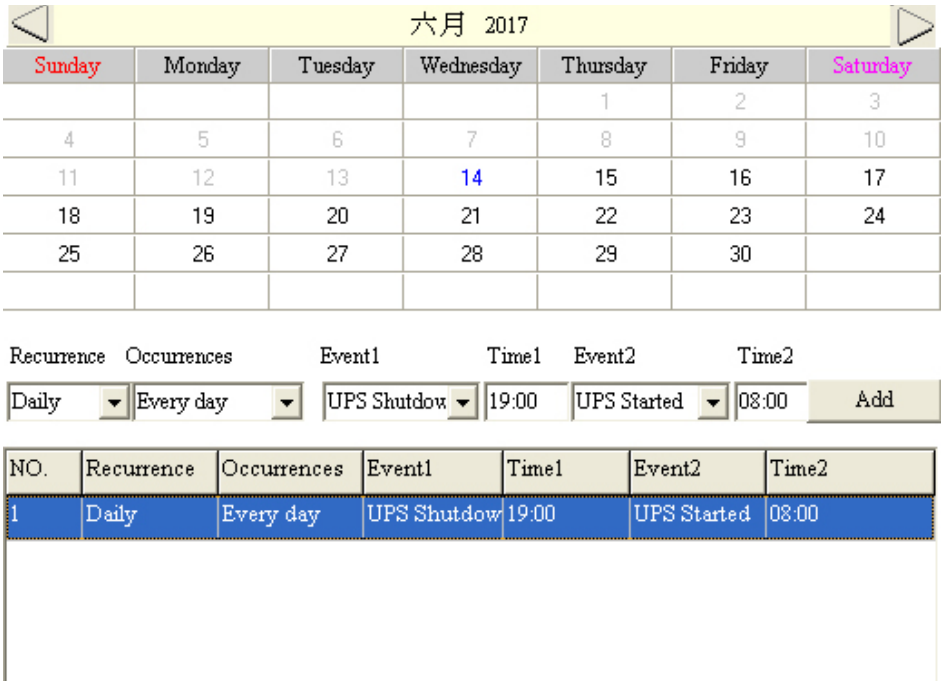
## H. UPS Schedule

It helps you to have an automatic UPS OFF / ON / Battery self test

1. Schedule Page

2. Recurrence & Occurrences : Once / Daily / Weekly / Monthly

3. Event : Ups shutdown / ups start / battery test




4. If you set up the UPS shutdown, all the UPSMON-Slaves will execute OS shutdown earlier **30** seconds than UPSMON-Master

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   NOTE: The time of ups shutdown must be earlier than ups start

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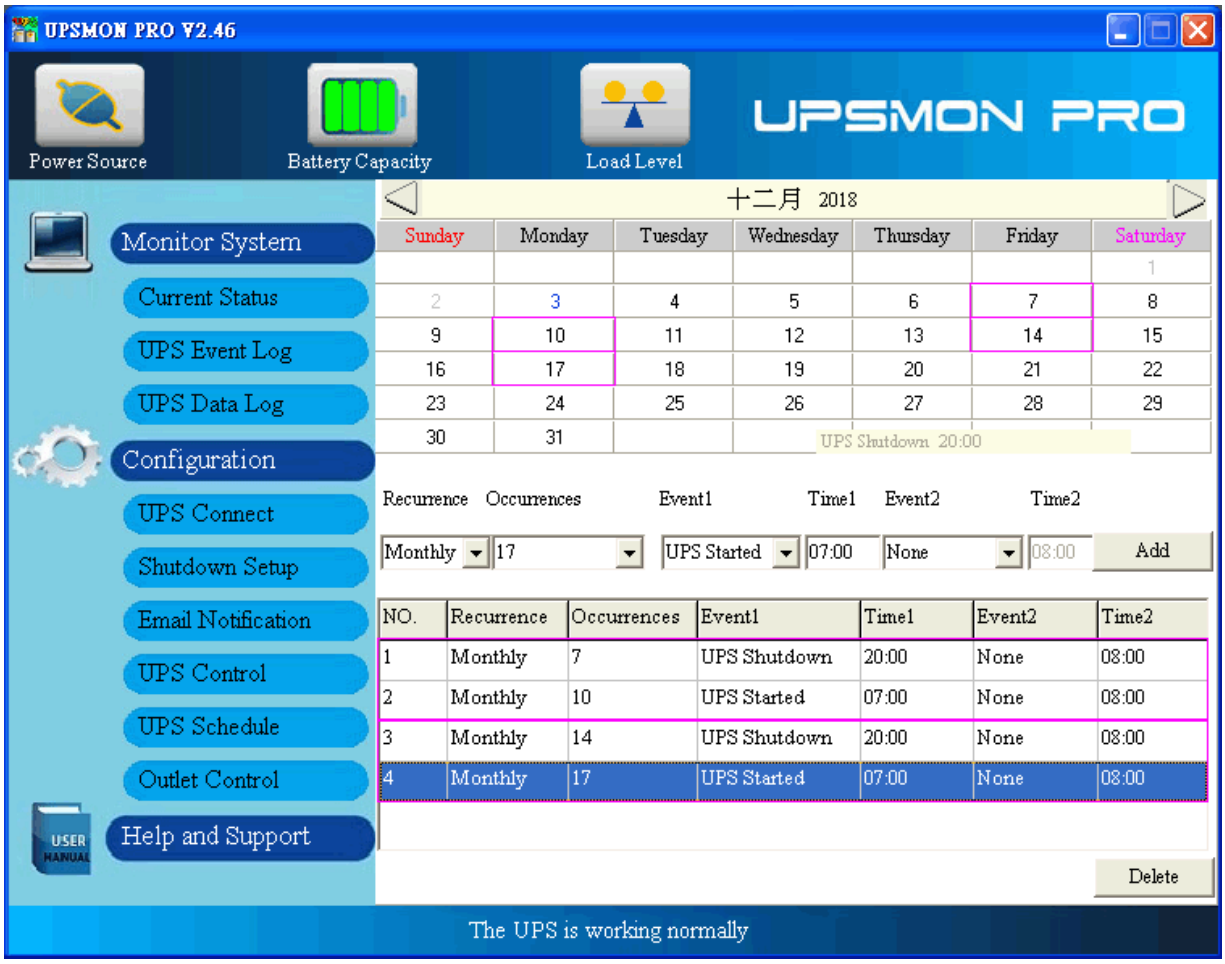
5. You can check the last UPS schedule for the current status

6. Monthly example : Monthly recurrent schedule



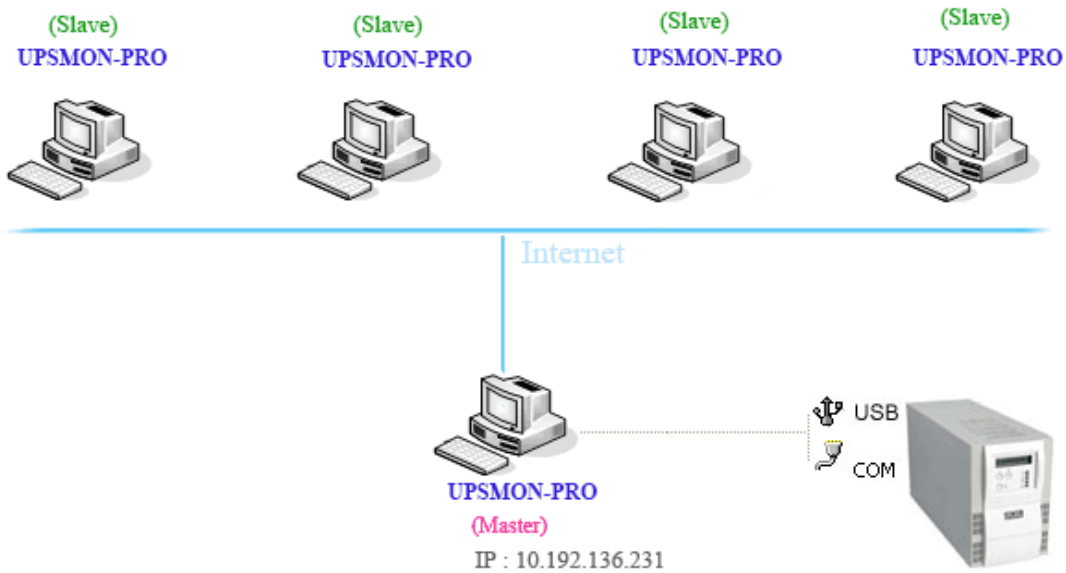

6.1 It will shutdown windows and ups output power at **20:00** every **7th**

6.1 And then started ups output power at **07:00** every **10th**

6.2 It will shutdown windows and ups output power at **20:00** every **14th**

6.2 And then started ups output power at **07:00** every **17th**

## I. Multi OS Connect and Shutdown




The UPSMON PRO can play the role as Master or Slave

1. UPSMON PRO **Master** : Physically connect(RS232 / USB) with ups

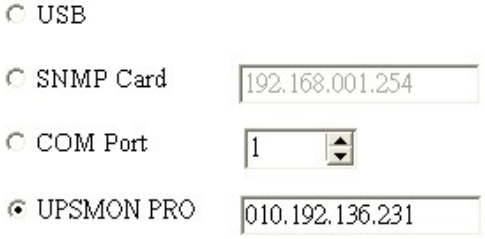
==> Master can share the ups information to other Slaves

==> EX : IP 10.192.136.231 (Master pc ip address)

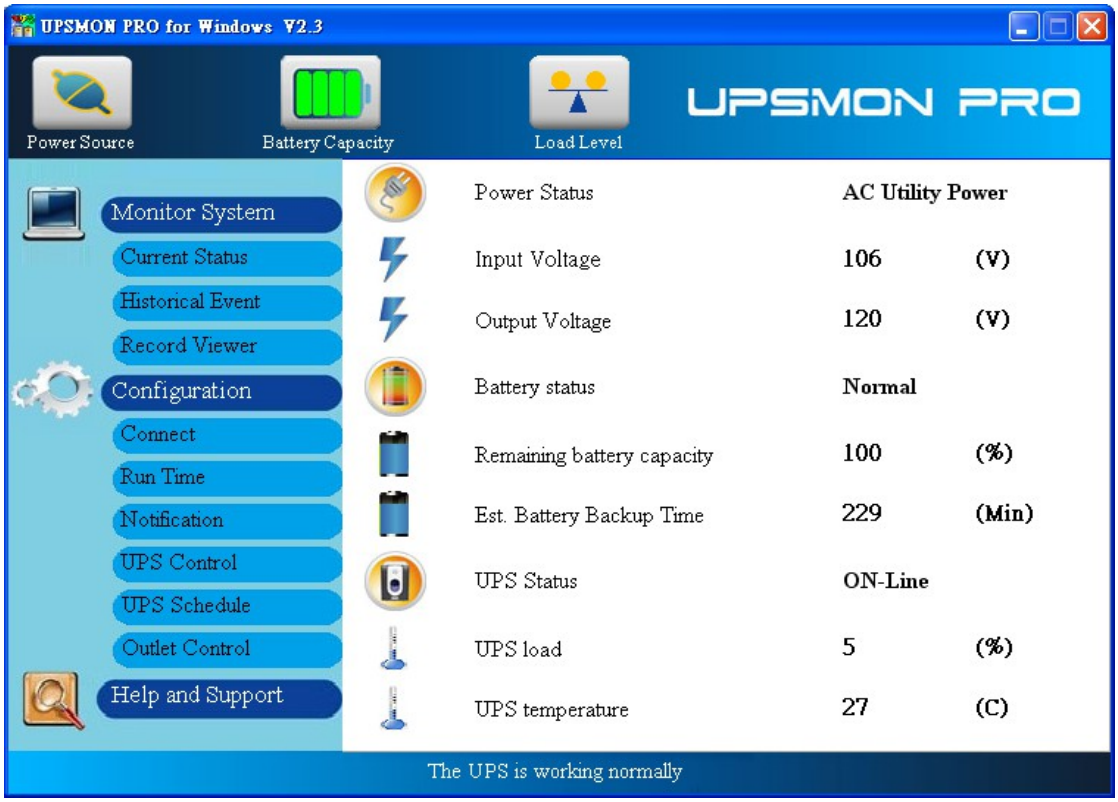
2. UPSMON PRO **Slave** : Get the ups information from UPSMON PRO Master by ways of the internet or intranet

==> All the other pc, which installed upsmon pro, can get the ups status from UPSMON PRO Master

**EX : UPSMON PRO Windows /** Connect Page / UPSMON PRO : 10.192.136.231



And then you get ups connection

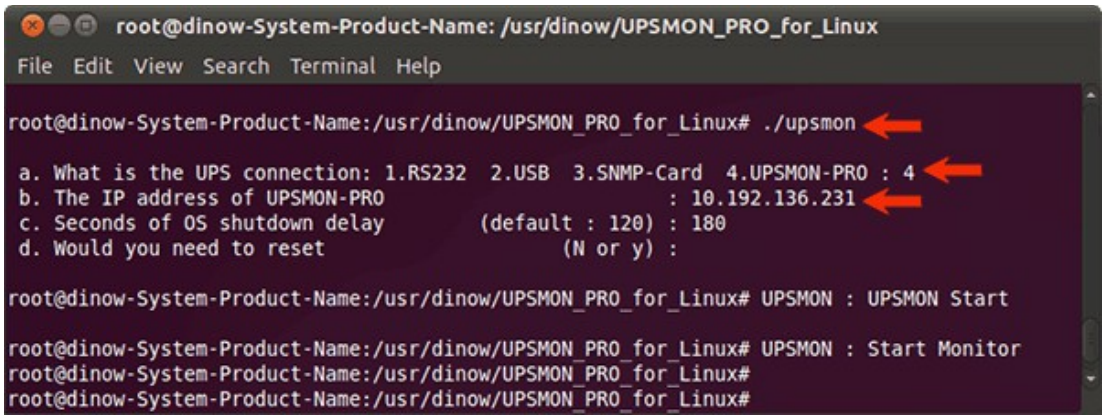



**EX : UPSMON PRO Linux**

==> Execute the UPSMON-PRO-for-Linux application : **./upsmon**

==> Choose UPSMON-PRO **(4)** with Master IP address

==> UPSMON : Start Monitor ==> It means the connection is successful



## J. Web Portal

Ups remotely monitoring via browser

1. Connect Page
2. Enable Web Server UPSMON Function
3. IP Address : Make sure this Windows has a IP address (ex : 10.192.136.231)
4. Port : 8000 (default)
5. User Name : UPSMON (default)
6. Password : UPSMON (default)

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NOTE: This feature requires your windows has a connectable ip address

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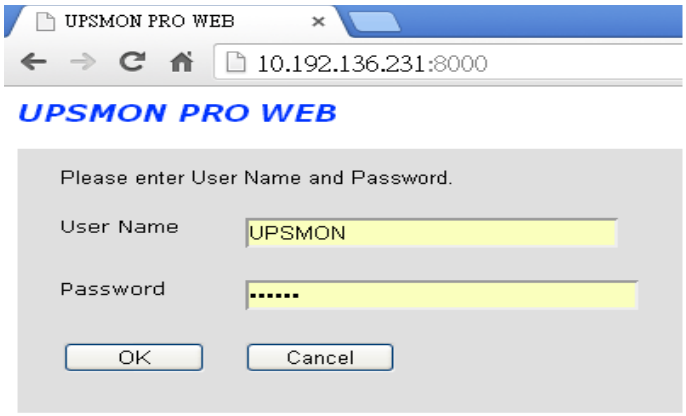


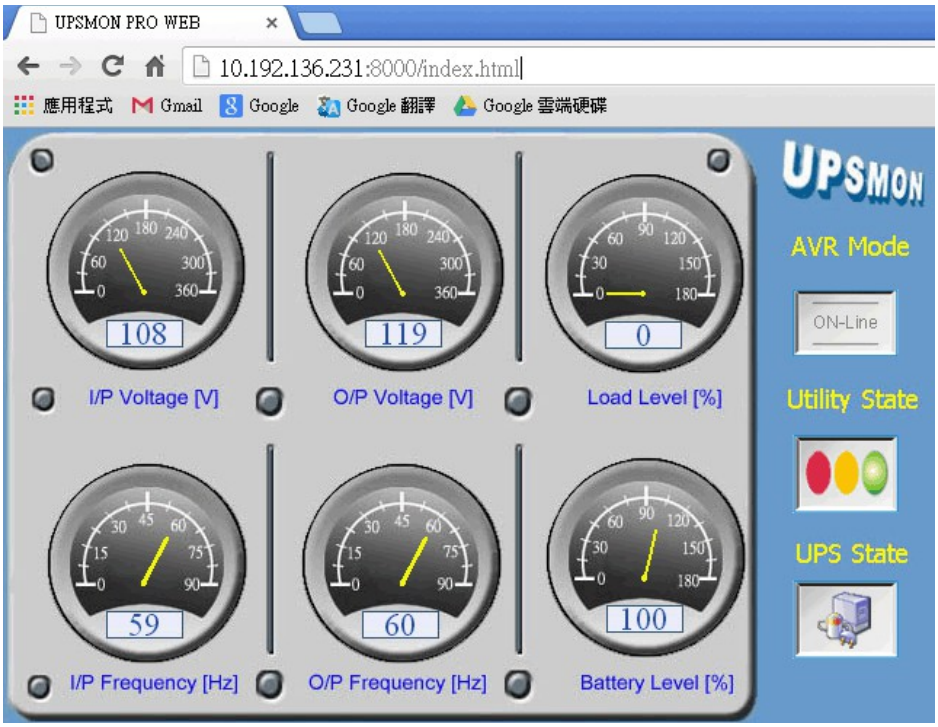

## K. Windows auto startup

Below configuration can help you to auto startup windows when power is restored

1. PC Restart

2. When the PC brand logo screen appears, press correct key on your keyboard to open to the BIOS Setup window  (For general PCs, press the **delete** key)

3. Use your arrow keys on the keyboard to select the correct power option

4. Select the correct setting to enable PC power always on. For general PCs, use your arrow keys to **Enable "Restore on AC Power Loss"**

5. Save your changes

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NOTE: Each PC varies in how to enter and make changes to the BIOS settings

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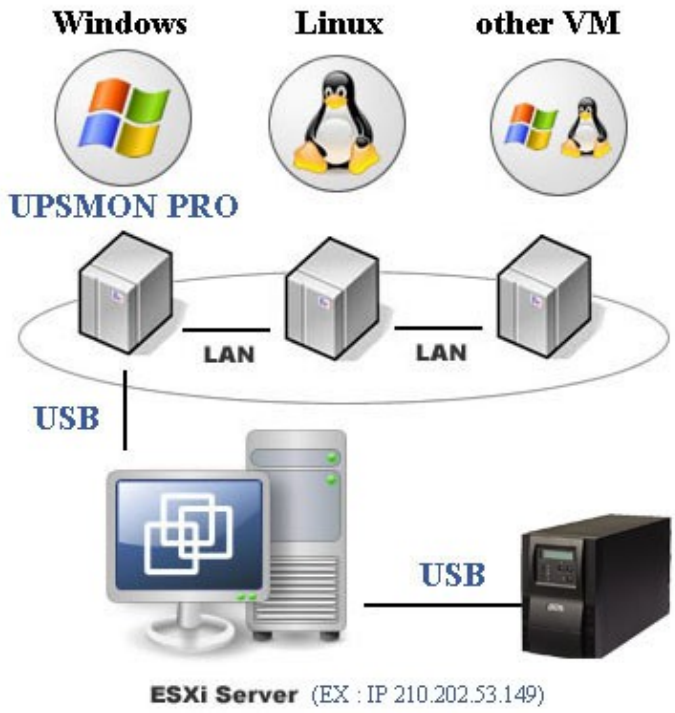
## L. VMWare Support



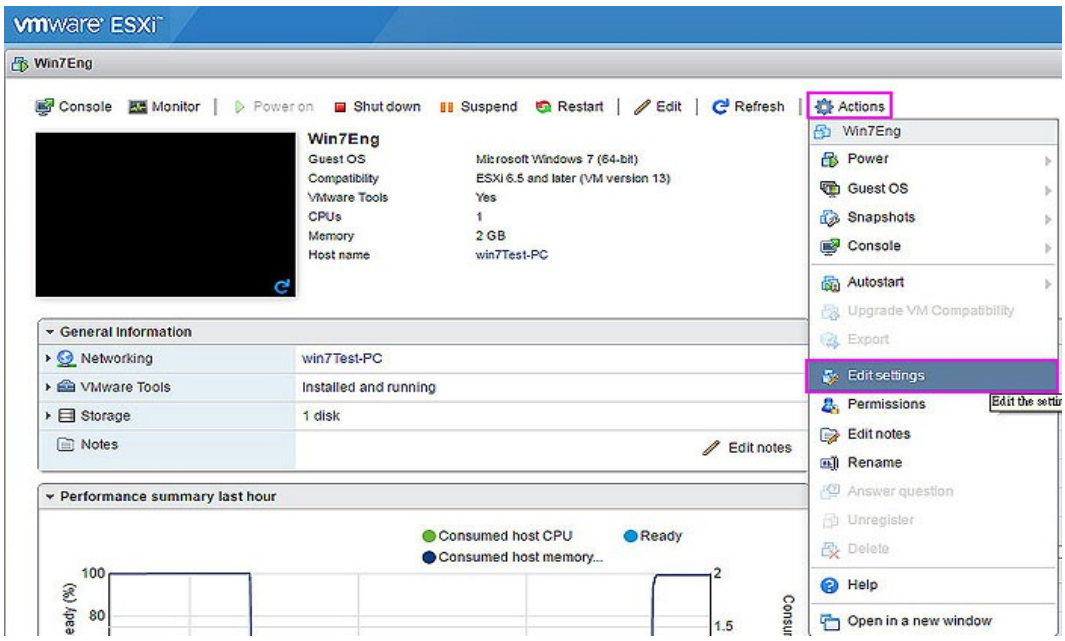

### A. Get ups monitoring on Vmware-Windows

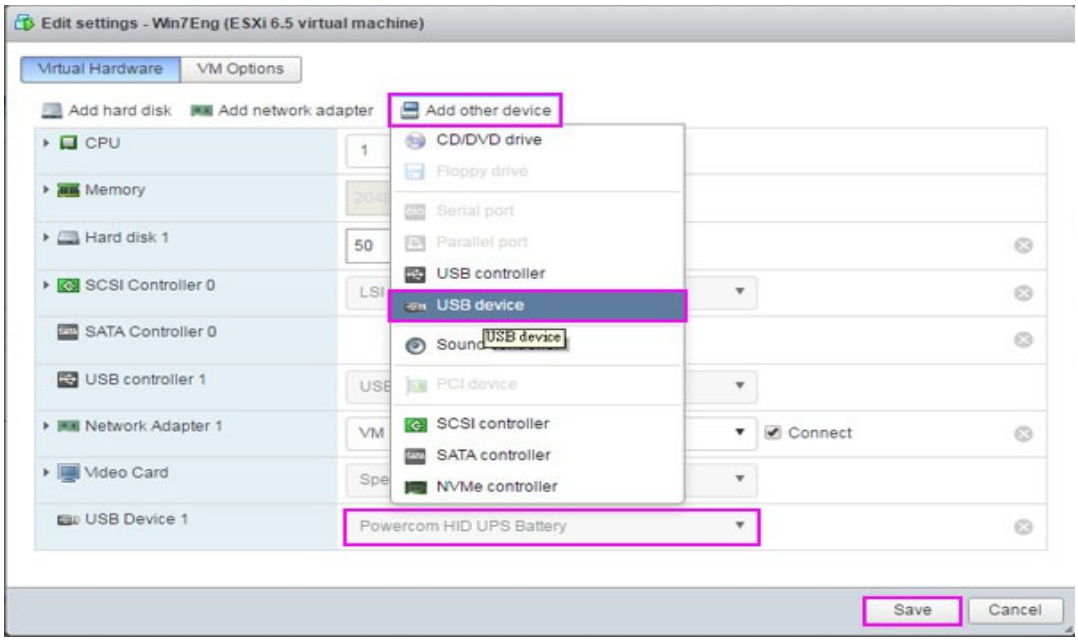
1. Vmware-Windows upsmon get ups connection from **usb**

   ==> Start Vmware ESXi

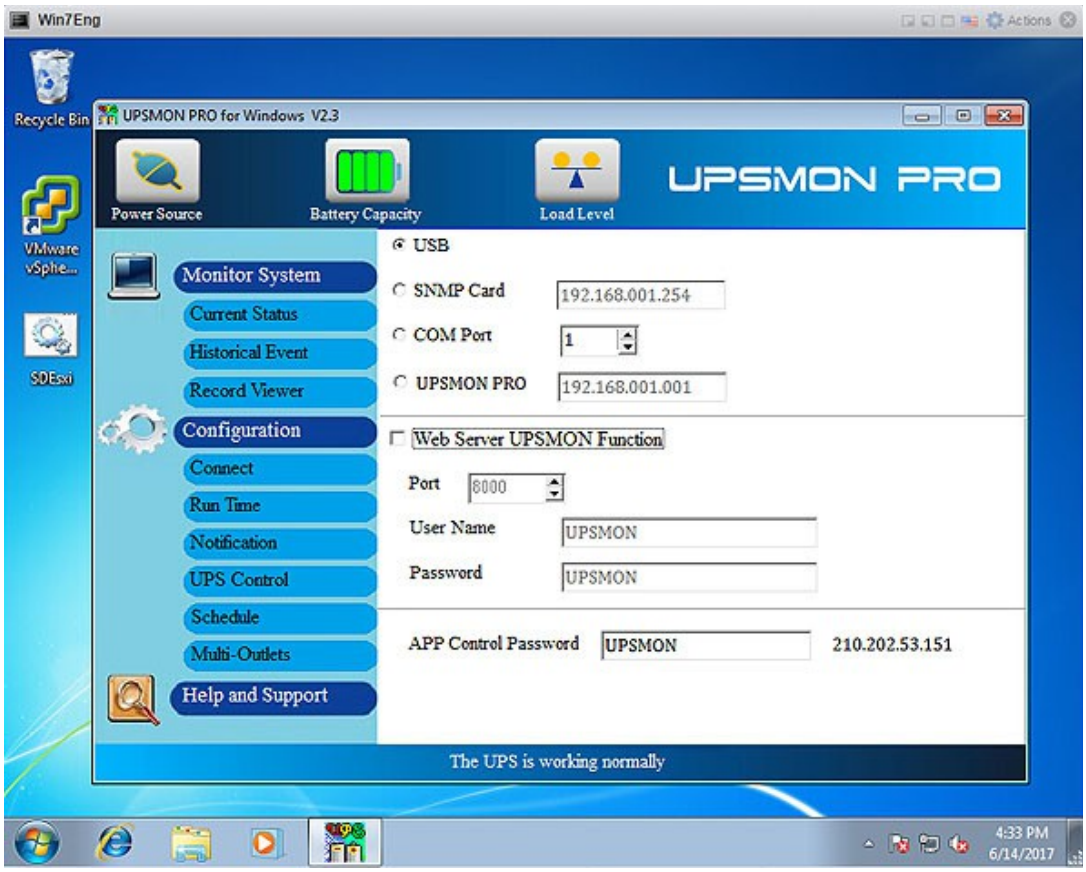
   ==> Vmware-Windows >> **Actions** >> **Edit settings**

   ==> **Add other device** >> **USB device** >> **Powercom HID UPS Battery** >> Save

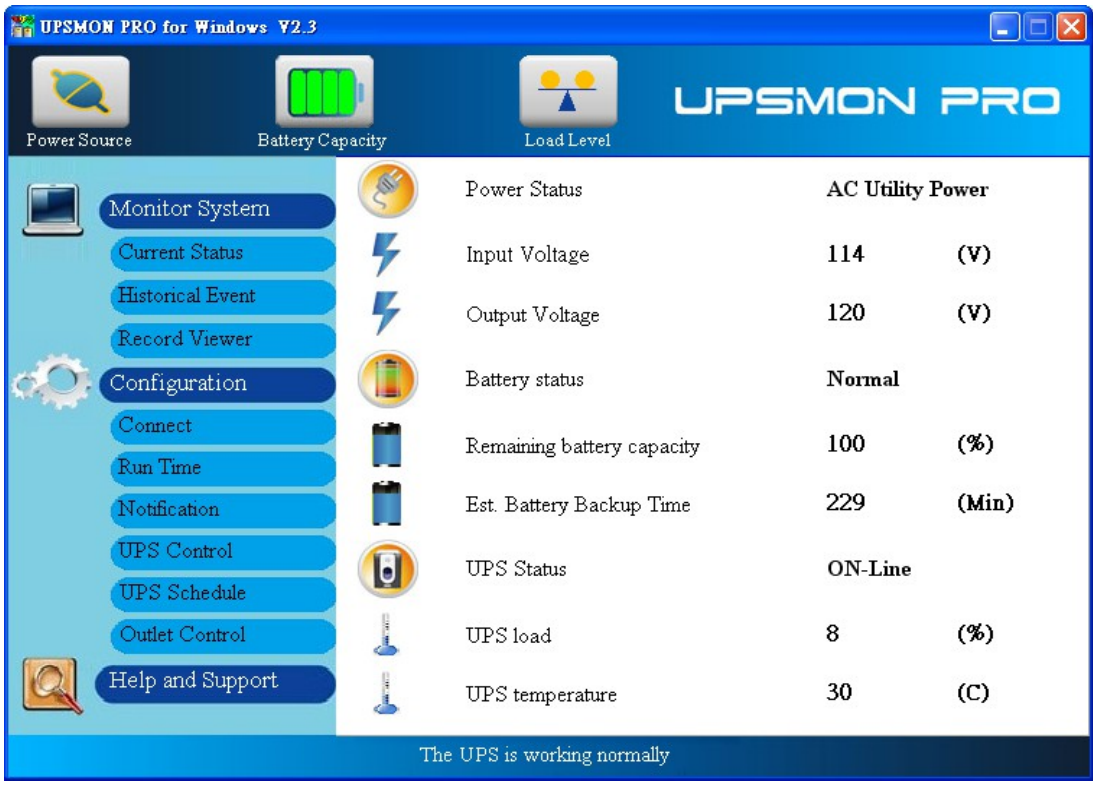





2. Vmware-Windows install upsmon pro and choose **usb** connection

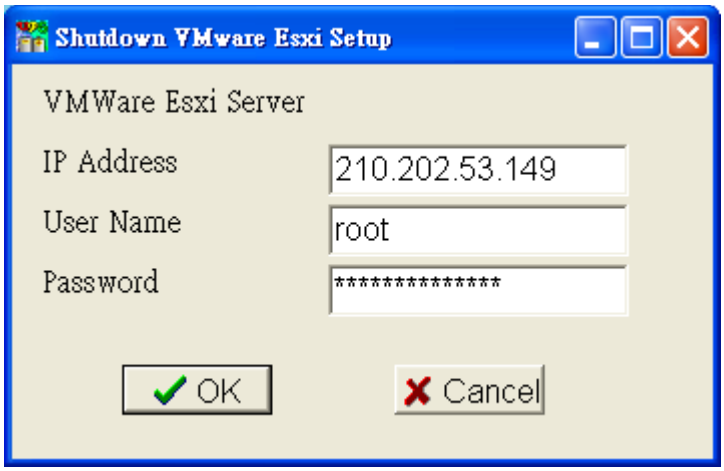


3. Successfully get ups monitoring

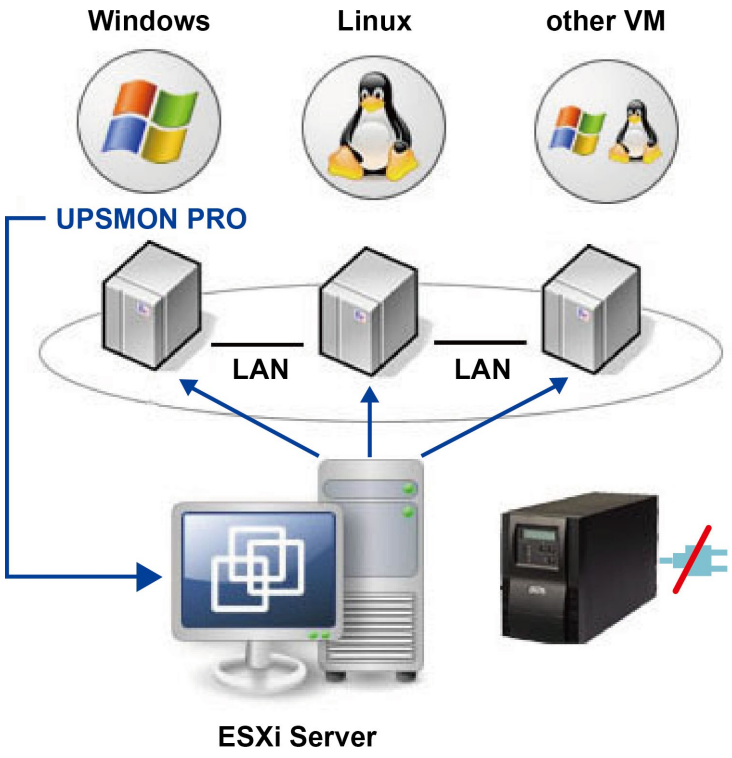



4. **UPSMON PRO** >> **Run Time** >> **Shutdown Vmware Esxi** (Enable) >> **Setup**


5. Filled in your Vmware Exsi **IP** / **User Name** (administrator) / **Password**



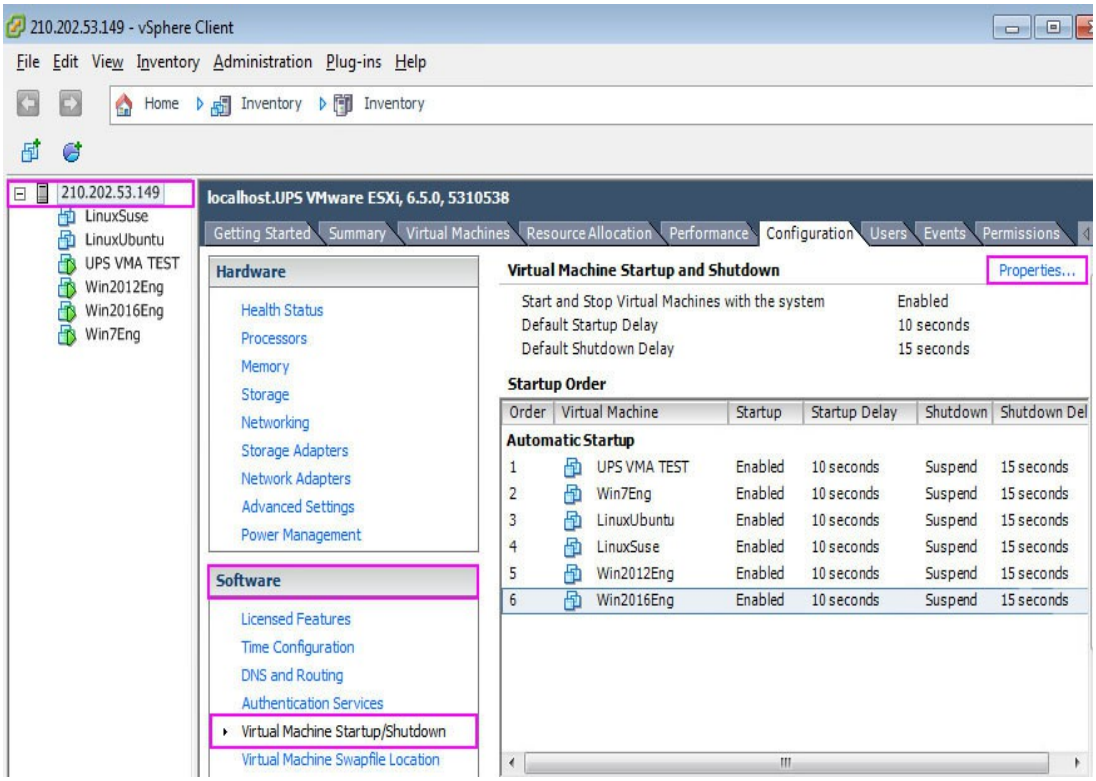
B. Vmware OS shutdown with sequence configuration




1. Install Vmware vSphere Client

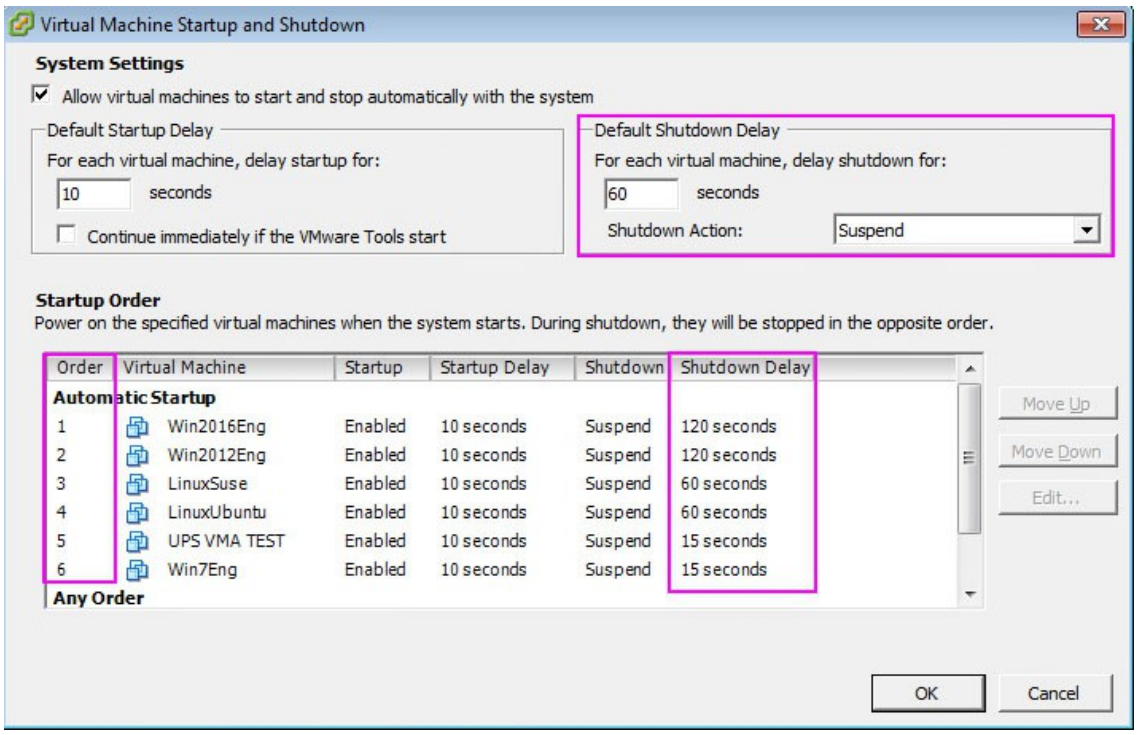
2. Start Vmware vSphere Client and login to the Vmware Esxi

3. Vmware **host** >> **Software** >> **Virtual Machine Startup / Shutdown** >> **Properties**



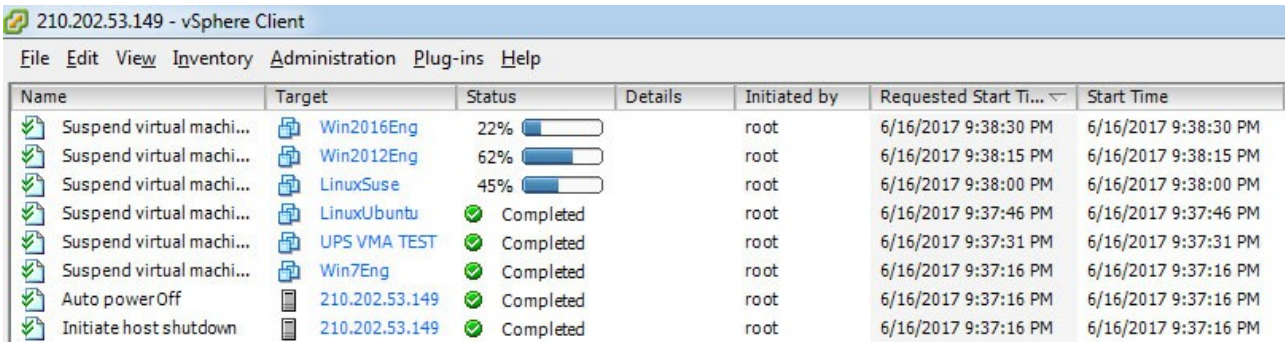

4. This windows is allowed you to setup :

shutdown type / shutdown delay / shutdown order / startup order




Ex : In above example : Win7Eng shutdown **first** / Win2016Eng shutdown **last**

C. Power failure and the Vmware shutdown as sequence




| Name | Target | Status | Details | Initiated by | Requested Start Ti... | Start Time |
|---|---|---|---|---|---|---|
| Suspend virtual machi... | Win2016Eng | 22% | | root | 6/16/2017 9:38:30 PM | 6/16/2017 9:38:30 PM |
| Suspend virtual machi... | Win2012Eng | 62% | | root | 6/16/2017 9:38:15 PM | 6/16/2017 9:38:15 PM |
| Suspend virtual machi... | LinuxSuse | 45% | | root | 6/16/2017 9:38:00 PM | 6/16/2017 9:38:00 PM |
| Suspend virtual machi... | LinuxUbuntu | Completed | | root | 6/16/2017 9:37:46 PM | 6/16/2017 9:37:46 PM |
| Suspend virtual machi... | UPS VMA TEST | Completed | | root | 6/16/2017 9:37:31 PM | 6/16/2017 9:37:31 PM |
| Suspend virtual machi... | Win7Eng | Completed | | root | 6/16/2017 9:37:16 PM | 6/16/2017 9:37:16 PM |
| Auto power Off | 210.202.53.149 | Completed | | root | 6/16/2017 9:37:16 PM | 6/16/2017 9:37:16 PM |
| Initiate host shutdown | 210.202.53.149 | Completed | | root | 6/16/2017 9:37:16 PM | 6/16/2017 9:37:16 PM |