

UPSMON PRO V2.57

UPS Monitoring Software

User's Manual

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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)

NOTE: administrator authority is necessary to execute at windows here

Parameter	Value	Unit
Power Status		
AC Utility Power		
Input Voltage	109	(V)
Output Voltage	109	(V)
Input Frequency	60	(Hz)
Battery Status	Normal	
Battery Capacity	100	(%)
Est. Backup Time	270	(Min)
UPS Status	ON-Line	
UPS Load	33	(%)
UPS Temperature	31	(C)

The UPS is working normally

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

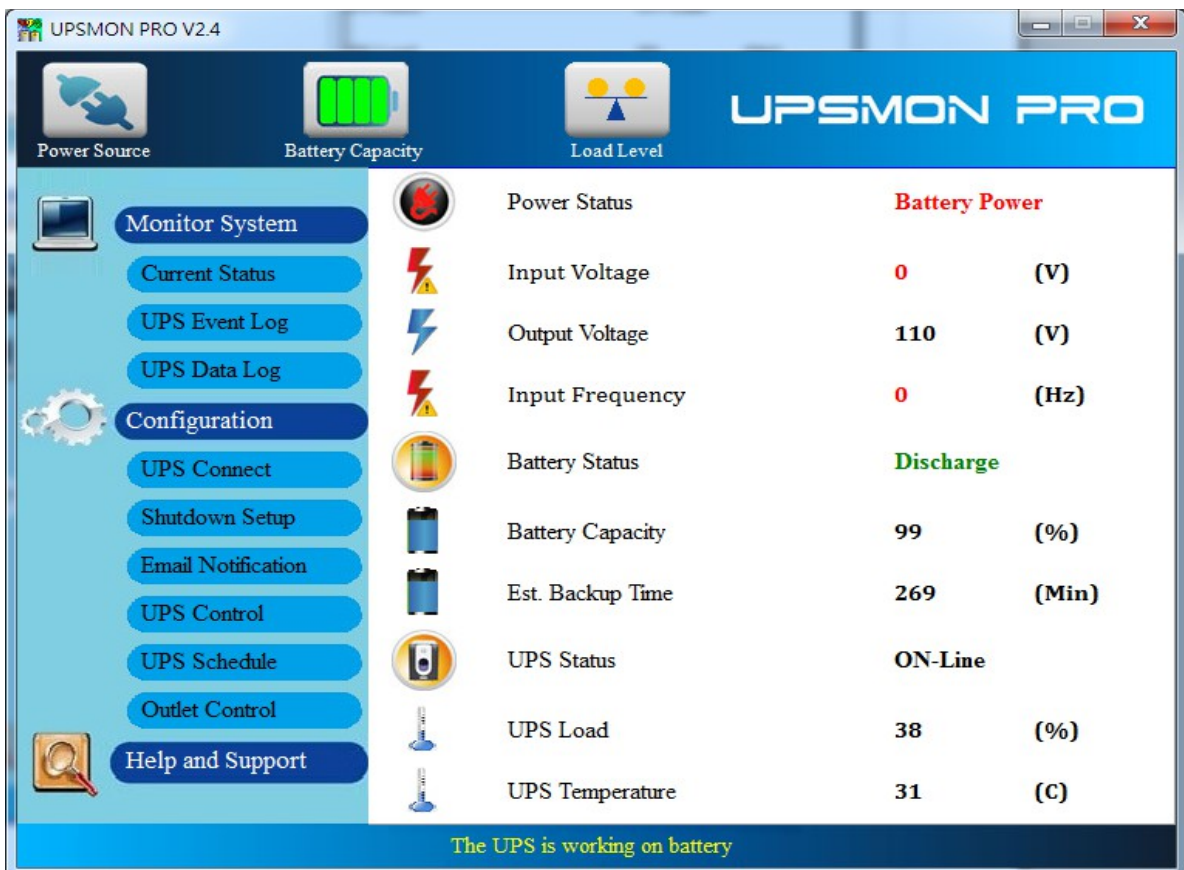
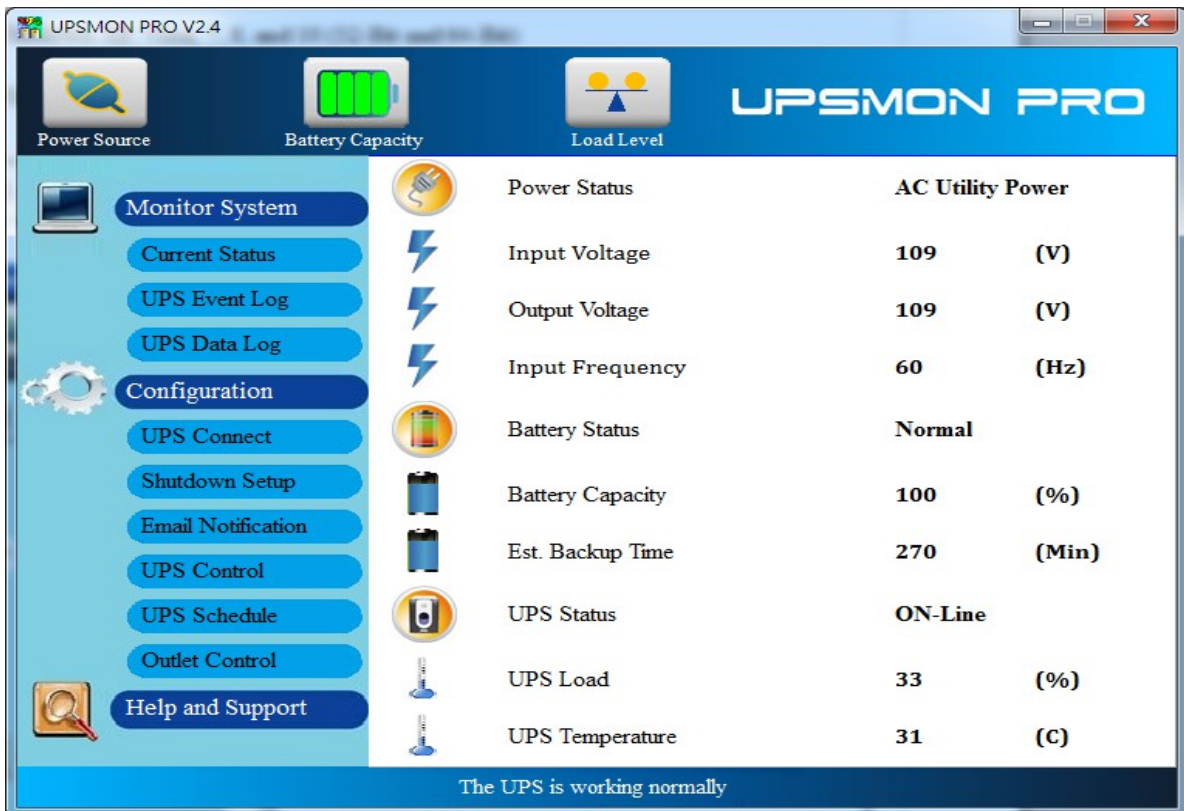
2.3 **COM Port** : The serial port cable is attached from the ups box

NOTE: The serial port cable is not suitable from the others

2.4 **UPSMON PRO** : Fill in the upsmon-pro computer ip address

<input checked="" type="radio"/> USB	
<input type="radio"/> SNMP Card	<input type="text" value="192.168.001.254"/>
<input type="radio"/> COM Port	<input type="text" value="1"/>
<input type="radio"/> UPSMON PRO	<input type="text" value="192.168.001.001"/>

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

<input checked="" type="checkbox"/> Power failure windows shutdown delay (Sec)	<input type="text" value="300"/>	(b1)
<input type="checkbox"/> Battery limited capacity shutdown (%)	<input type="text" value="30"/>	(b2)
<input checked="" type="checkbox"/> Low battery shutdown		(b3)
<hr/>		
<input type="checkbox"/> Execute Command File		(d)
<input type="text" value="C:\Documents and Settings\Owne"/>		
Time to excute command file (sec)	<input type="text" value="60"/>	
<hr/>		
<input type="checkbox"/> Shutdown VMware Esxi		<input type="button" value="Setup"/>
<hr/>		
Windows Shutdown type	<input type="text" value="Shut down"/>	(a)
<hr/>		
<input checked="" type="checkbox"/> UPS shutdown delay (Min)	<input type="text" value="2"/>	(c)
<hr/>		
UPS start delay time (sec)	<input type="text" value="0"/>	(e1)
UPS start delay battery capacity (%)	<input type="text" value="0"/>	(e2)

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

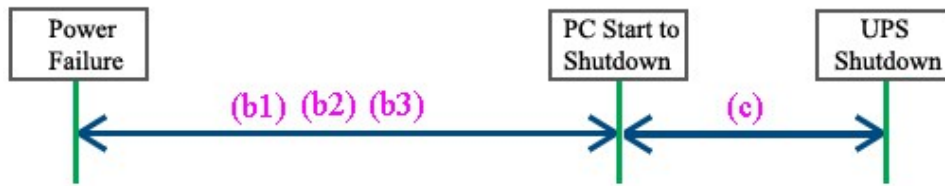
3. **Power failure windows shutdown delay (b1)** : After this period of time runs out, windows start to act shutdown

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

Any one of the(b1,2,3)item-conditions is fulfilled, upsmon execute windows shutdown or hibernate at once

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 %

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

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

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)

SMTP Server	<input type="text" value="smtp.gmail.com"/>	User Name	<input type="text" value="dinow46"/>
<input checked="" type="checkbox"/> Using Secure Password Authentication	<input type="text" value="*****"/>		
Port	<input type="text" value="465"/>	<input checked="" type="radio"/> Table Format	<input type="radio"/> Text Format
Sender E-Mail Address	<input type="text" value="dinow46@gmail.com"/>		
Send To	<input type="text" value="dinow@upspowercom.com.tw"/>		
<input type="button" value="Mail Test"/>	<input checked="" type="checkbox"/> Daily Report		

Popup Message Notification

D. UPS Control

1. UPS Control Page

Battery Test Function			
<input type="text" value="Quick Battery Test"/>	<input type="text" value="30"/>	<input type="button" value="Execute"/>	
UPS Function Setting			
<input type="text" value="Manual Bypass"/>			
Parameter			
<input type="text" value="OFF"/>		<input type="button" value="Execute"/>	
<input type="checkbox"/> Enable Green Mode			
<input checked="" type="radio"/> Green Mode ON			
<input type="radio"/> Green Mode OFF			
<input type="checkbox"/> Enable Power Failure UPS Sound			
<input type="radio"/> Sound ON			
<input type="radio"/> Sound OFF			
<input type="radio"/> Sound OFF			
From	<input type="text" value="上午 10:00:0"/>	To	<input type="text" value="下午 08:00:0"/>

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

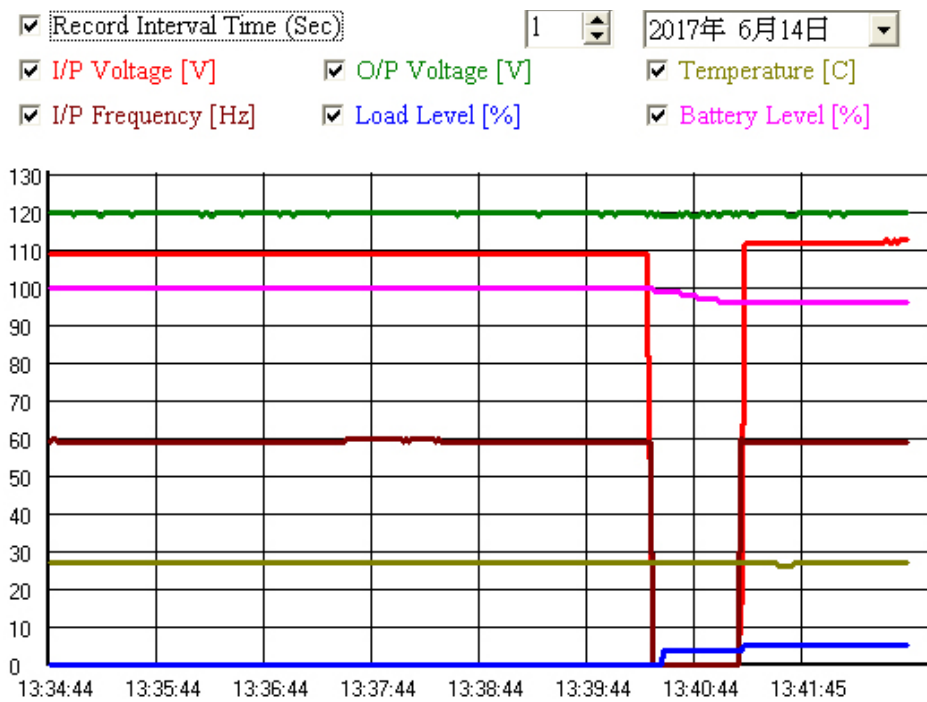
E. Historical Event

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

NOTE: This feature requires the specific UPS to support

Enable Outlet Control

Outlet 1 Outlet 2

Master Outlet Outlet 1

Slave Outlet Setting

<input type="checkbox"/> Power failure windows shutdown delay (Sec)	<input type="text" value="300"/>
<input type="checkbox"/> Battery limited capacity shutdown (%)	<input type="text" value="30"/>
<input type="checkbox"/> Low battery shutdown	
UPS shutdown delay (Min)	<input type="text" value="2"/>

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

六月 2017						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

Recurrence	Occurrences	Event1	Time1	Event2	Time2	
Daily	Every day	UPS Shutdow	19:00	UPS Started	08:00	Add

NO.	Recurrence	Occurrences	Event1	Time1	Event2	Time2
1	Daily	Every day	UPS Shutdown	19:00	UPS Started	08:00

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

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

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



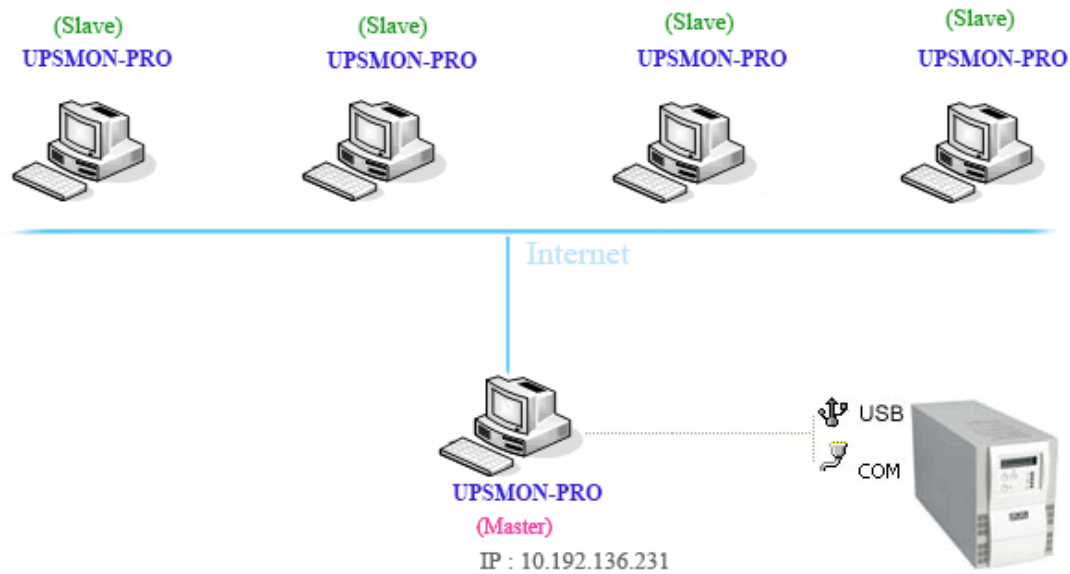
UPS Shutdown

2017/6/14 19 : 00

UPS Started

2017/6/15 08 : 00

I. Multi OS Connect



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)

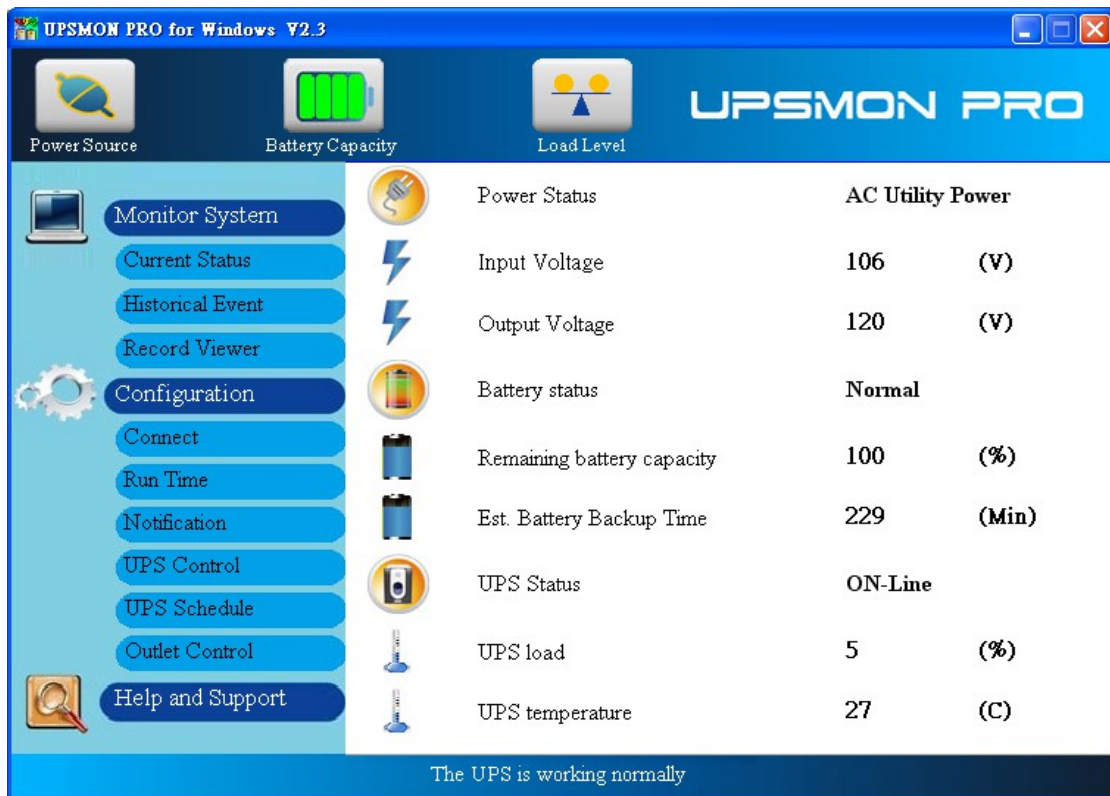
2. UPSMON PRO **Slave** : Get the ups information from UPSMON PRO Master by ways of the internet or intranet

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

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

<input type="radio"/> USB	
<input type="radio"/> SNMP Card	192.168.001.254
<input type="radio"/> COM Port	1
<input checked="" type="radio"/> UPSMON PRO	010.192.136.231

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

```
root@dinow-System-Product-Name: /usr/dinow/UPSMON_PRO_for_Linux
File Edit View Search Terminal Help

root@dinow-System-Product-Name:/usr/dinow/UPSMON_PRO_for_Linux# ./upsmon
a. What is the UPS connection: 1.RS232 2.USB 3.SNMP-Card 4.UPSMON-PRO : 4
b. The IP address of UPSMON-PRO : 10.192.136.231
c. Seconds of OS shutdown delay (default : 120) : 180
d. Would you need to reset (N or y) :

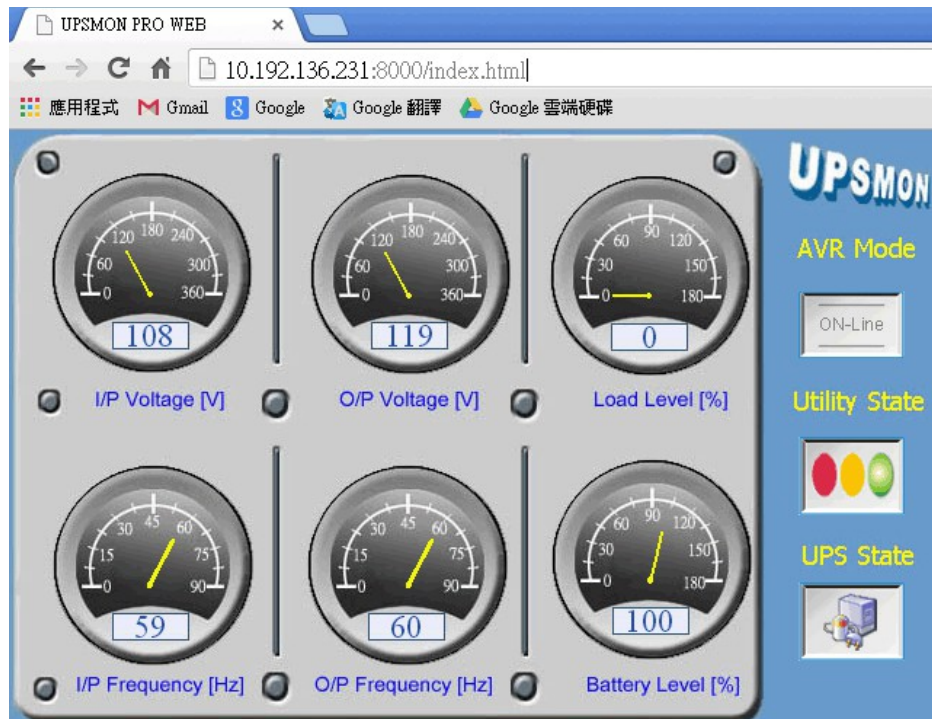
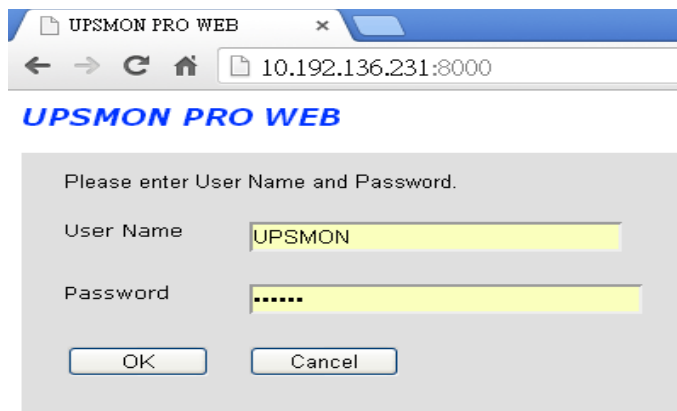
root@dinow-System-Product-Name:/usr/dinow/UPSMON_PRO_for_Linux# UPSMON : UPSMON Start
root@dinow-System-Product-Name:/usr/dinow/UPSMON_PRO_for_Linux# UPSMON : Start Monitor
root@dinow-System-Product-Name:/usr/dinow/UPSMON_PRO_for_Linux#
root@dinow-System-Product-Name:/usr/dinow/UPSMON_PRO_for_Linux#
```

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)

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



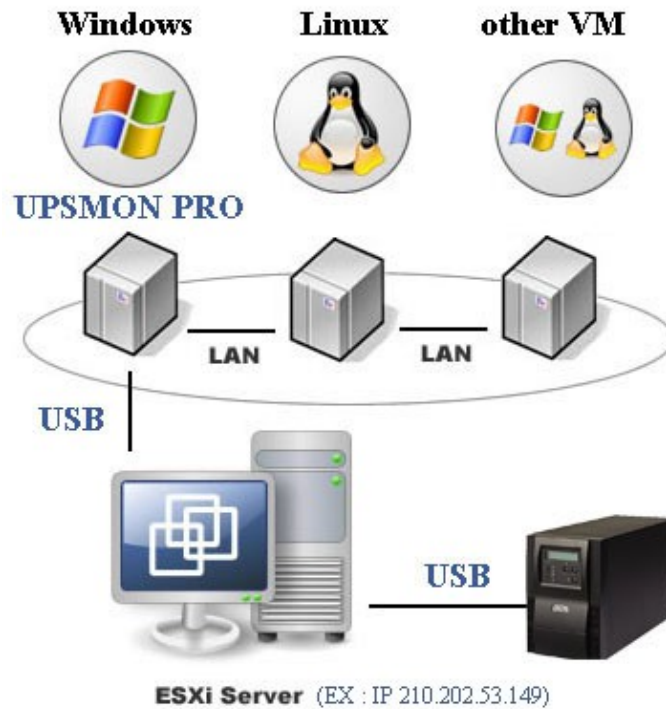
K. Windows auto startup

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

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

L. VMWare Support



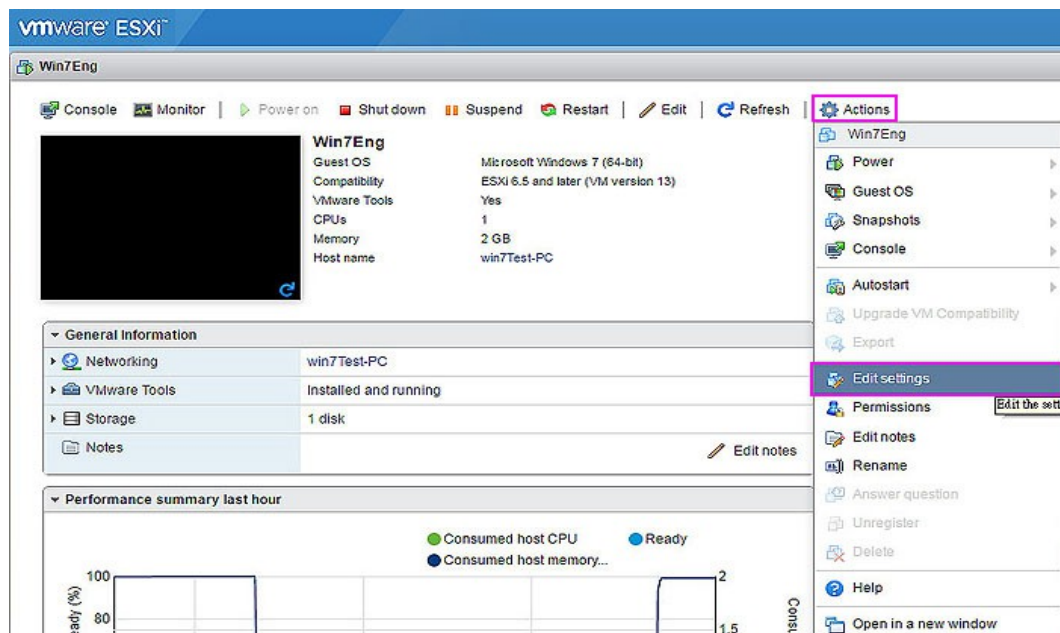
A. Get ups monitoring on Vmware-Windows

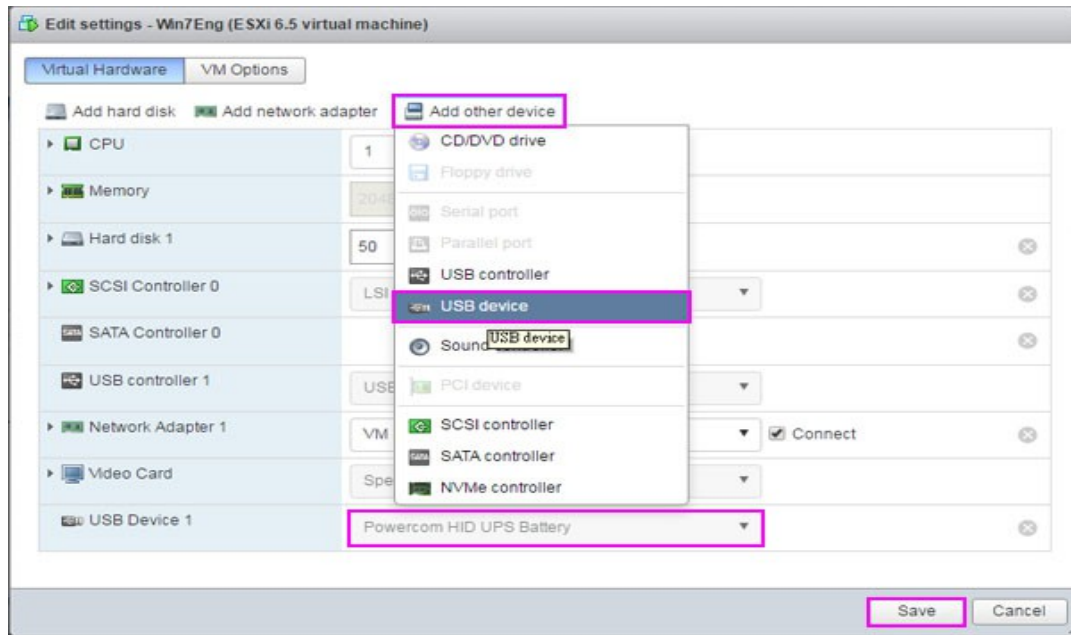
1. Vmware-Windows upsmon get ups connection from **usb**

==> Start Vmware ESXi

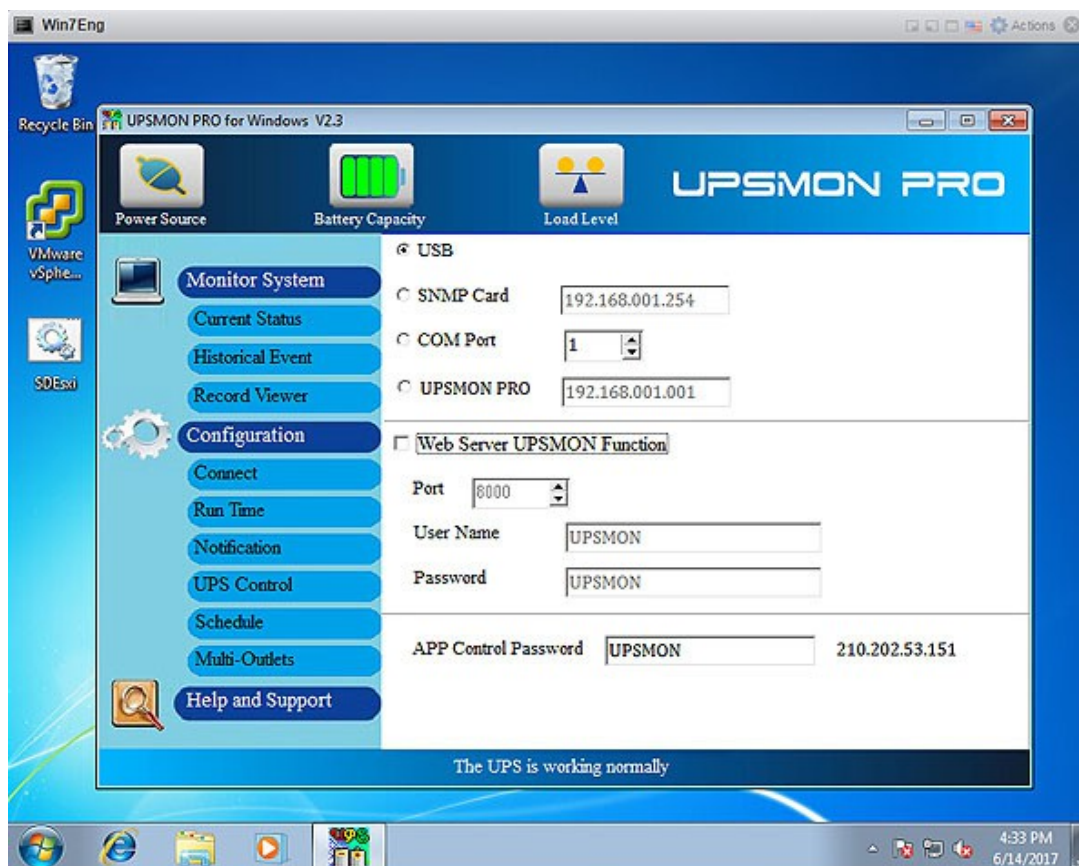
==> Vmware-Windows >> **Actions** >> **Edit settings**

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

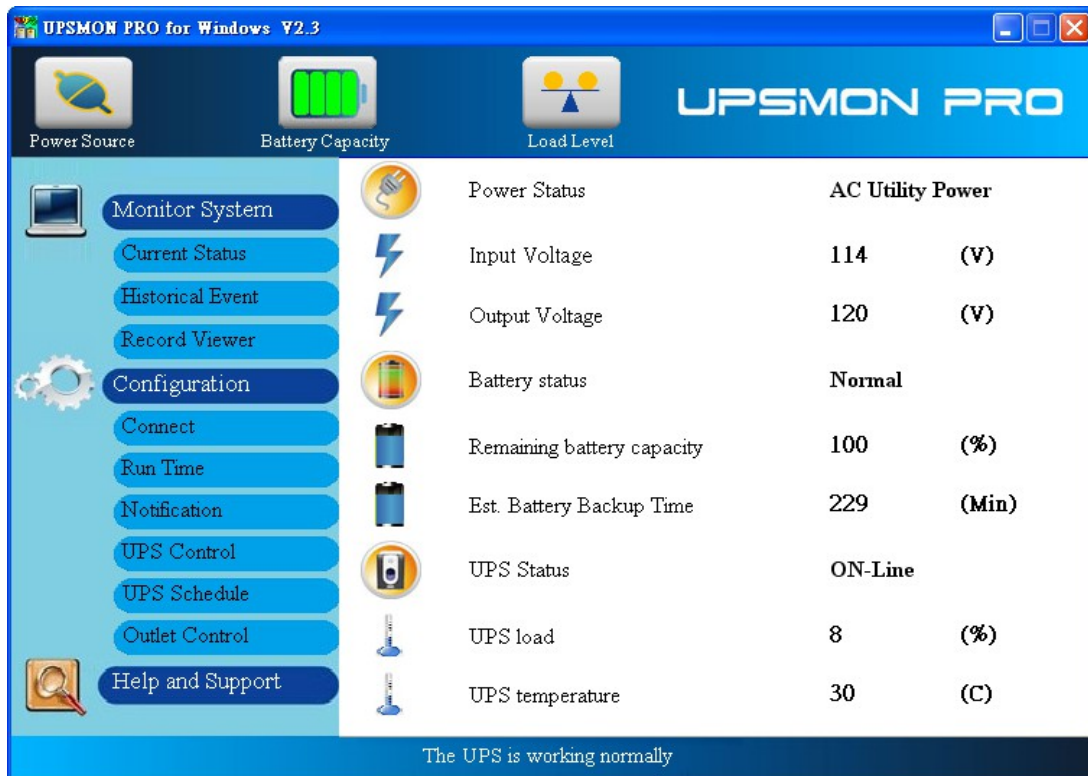




2. Vmware-Windows install upsmon pro and choose **usb** connection



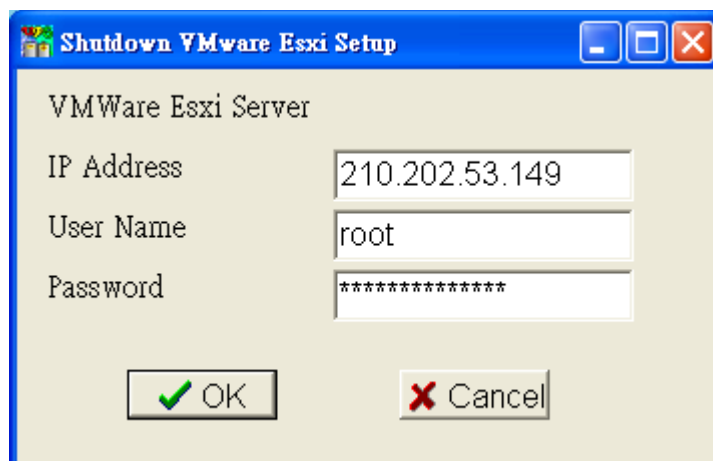
3. Successfully get ups monitoring



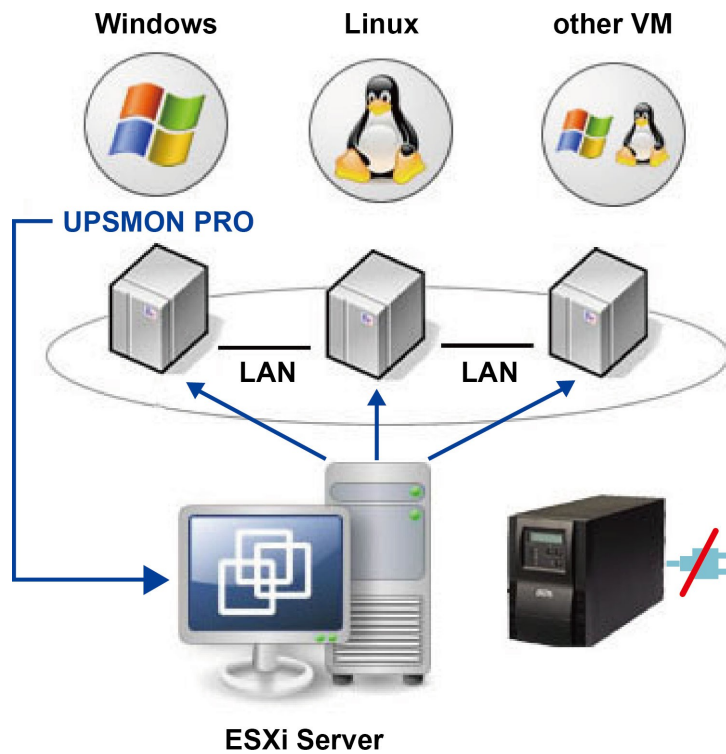
4. UPSMON PRO >> Run Time >> Shutdown Vmware Esxi (Enable) >> Setup



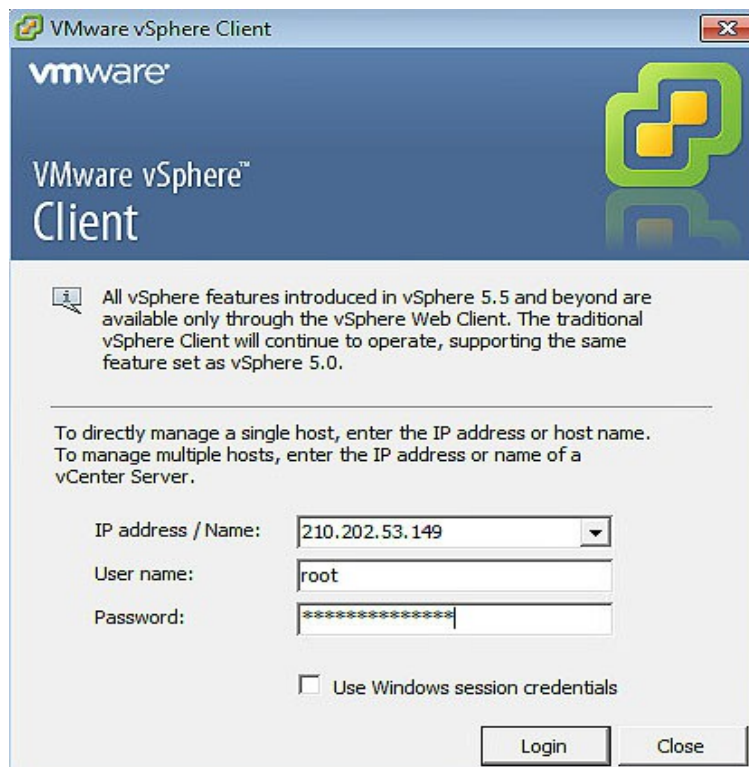
5. Filled in your Vmware Esxi IP / User Name (administrator) / Password



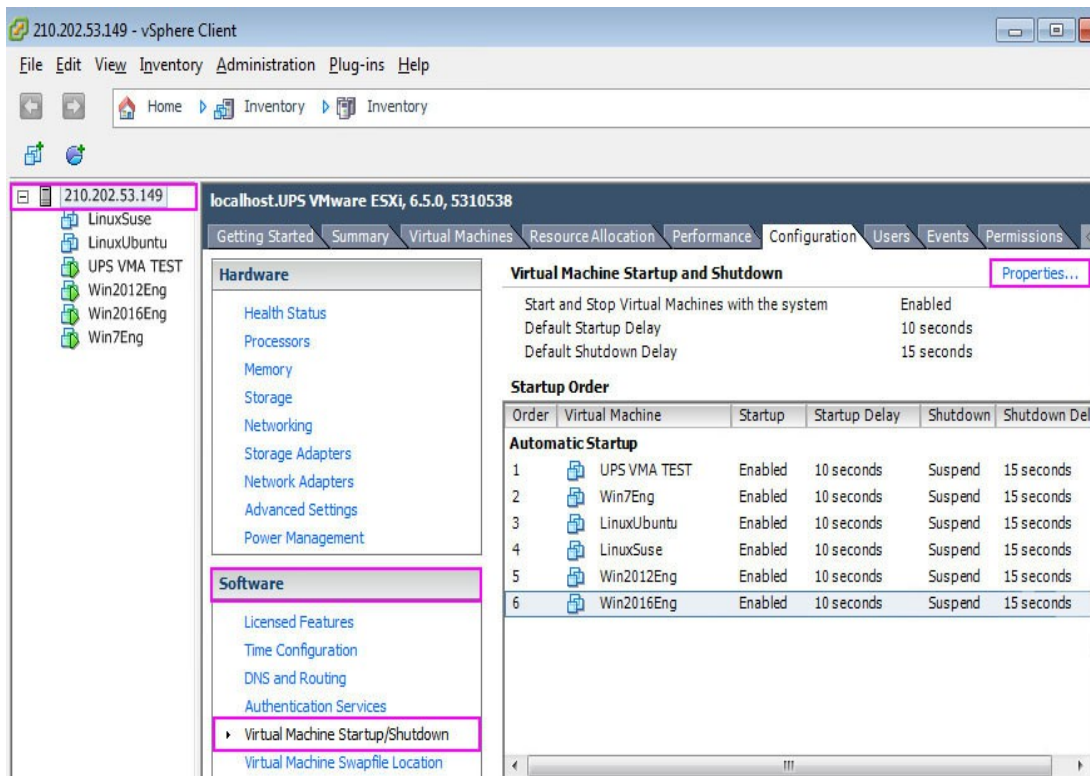
B. VMware OS shutdown with sequence configuration



1. Install VMware vSphere Client
2. Start VMware vSphere Client and login to the VMware Esxi

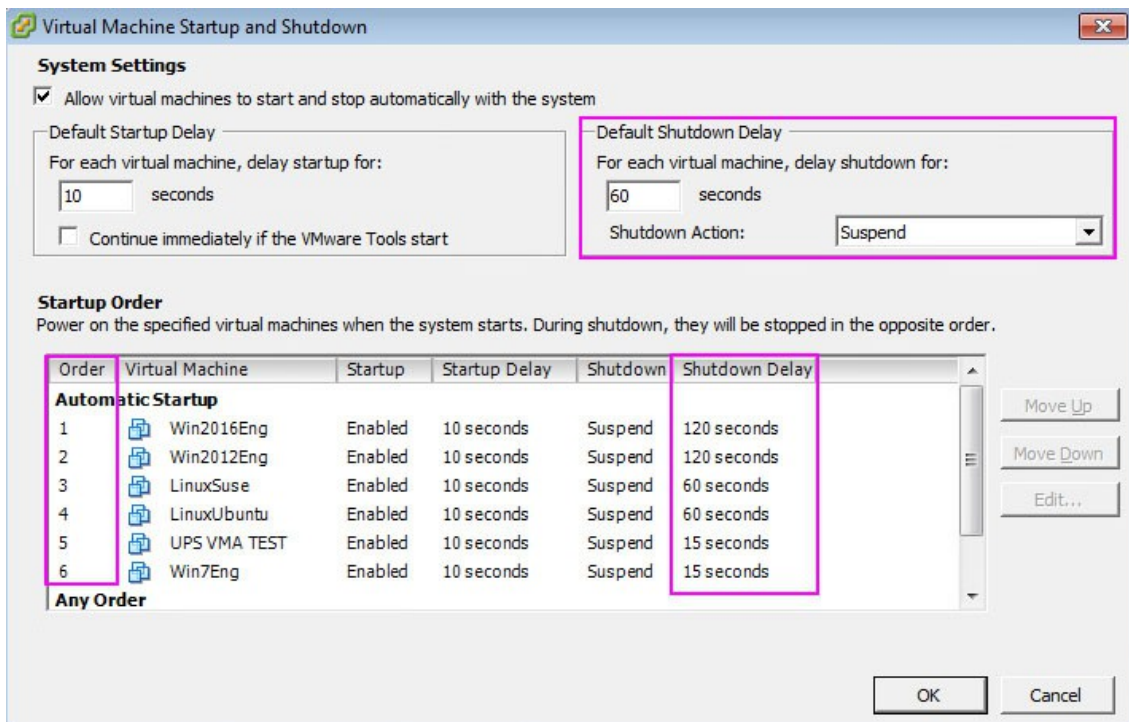


3. Vmware host >> Software >> Virtual Machine Startup / Shutdown >> Properties



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

210.202.53.149 - vSphere Client

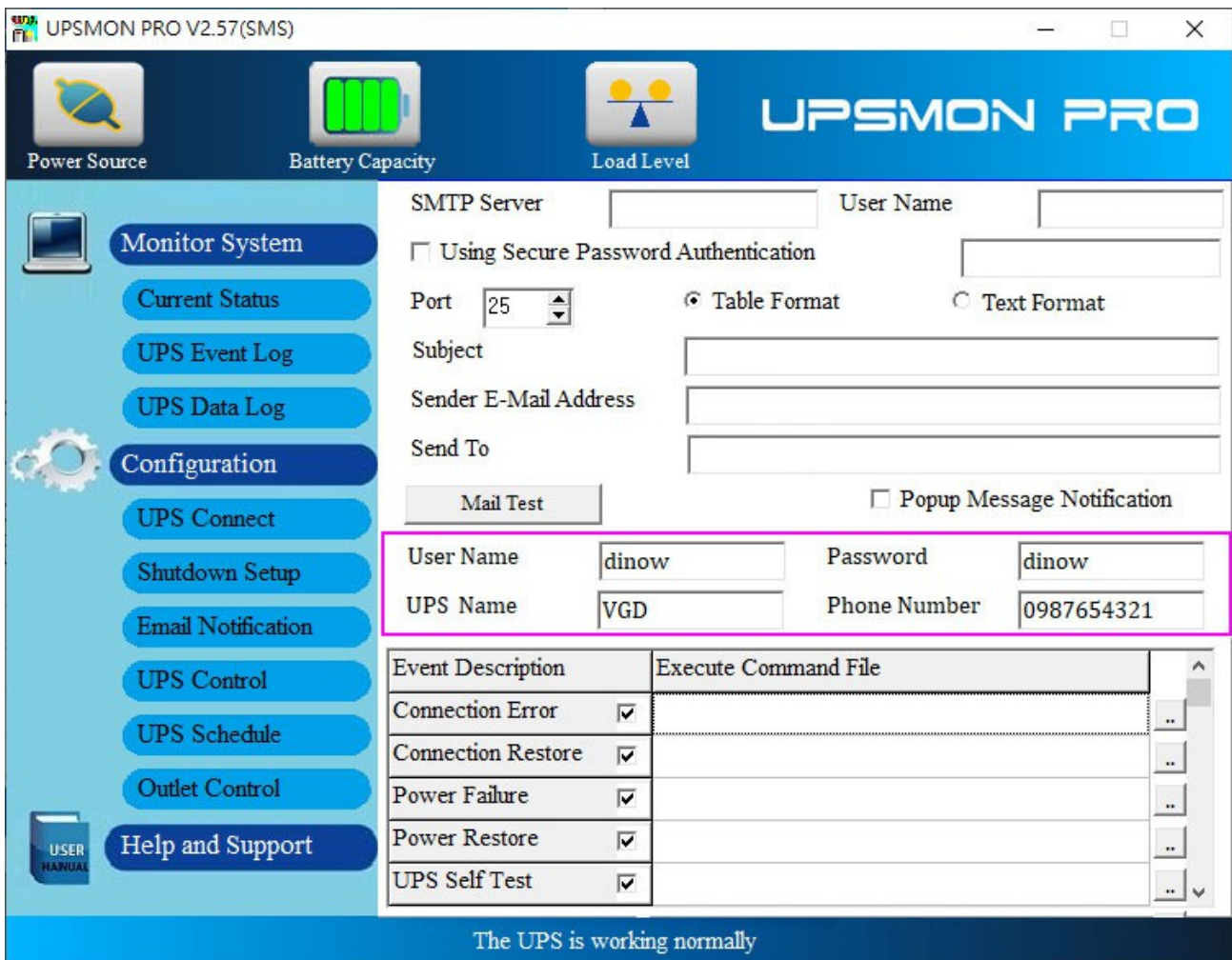
File Edit View Inventory Administration Plug-ins Help

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

M. SMS Alarm

A. Configuration >> UPSMON >> Email Notification

- **User Name** and **password** >> Check with your ups vendor
- **UPS Name** >> Receive alarm's message with ups label
- **Phone Number** >> Receive alarm's phone number



The screenshot displays the UPSMON PRO V2.57(SMS) software interface. The top bar shows the title and window controls. Below the title bar, there are three status indicators: Power Source, Battery Capacity, and Load Level. The main interface is divided into a sidebar on the left and a main content area on the right. The sidebar contains navigation buttons for Monitor System, Configuration, and Help and Support. The main content area is titled "Email Notification" and contains several configuration fields and a table.

Configuration Fields:

- SMTP Server: []
- User Name: []
- Using Secure Password Authentication
- Port: 25
- Table Format Text Format
- Subject: []
- Sender E-Mail Address: []
- Send To: []
- Popup Message Notification
- Mail Test: []
- User Name: dinow
- Password: dinow
- UPS Name: VGD
- Phone Number: 0987654321

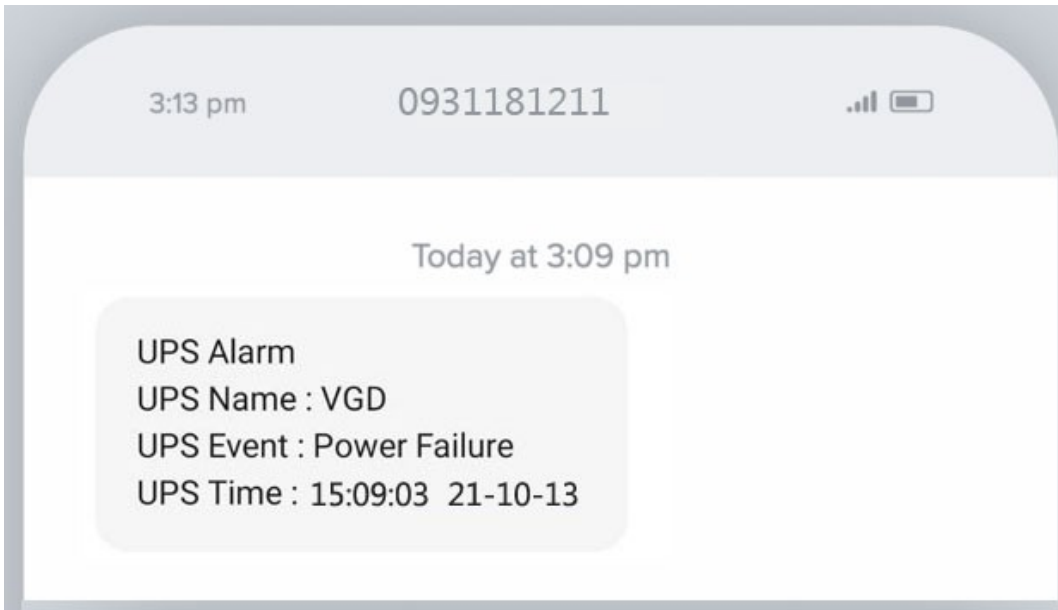
Event Description Table:

Event Description	Execute Command File
Connection Error <input checked="" type="checkbox"/>	[]
Connection Restore <input checked="" type="checkbox"/>	[]
Power Failure <input checked="" type="checkbox"/>	[]
Power Restore <input checked="" type="checkbox"/>	[]
UPS Self Test <input checked="" type="checkbox"/>	[]

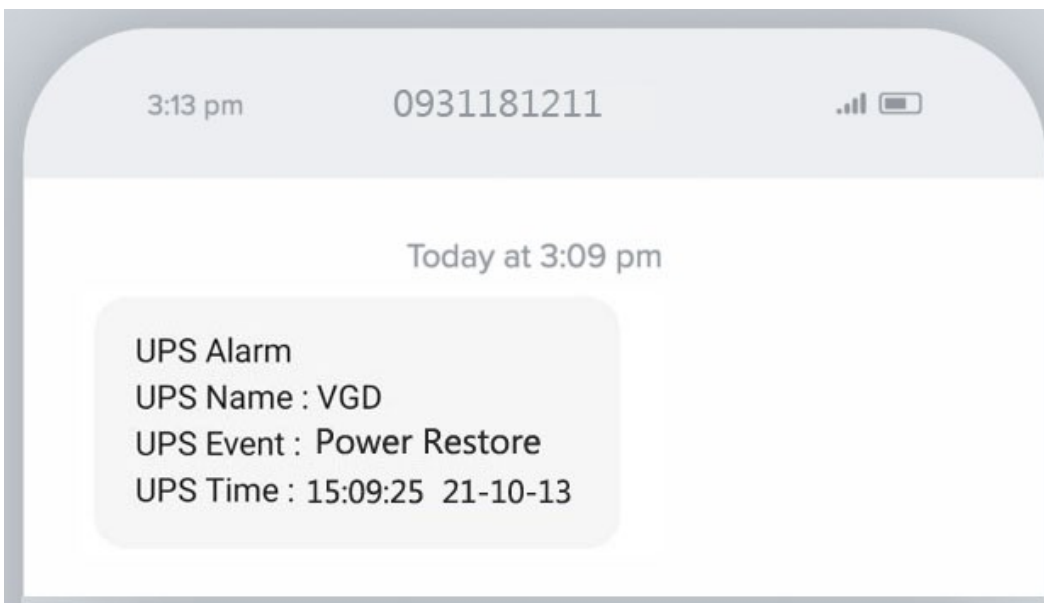
The bottom status bar indicates: "The UPS is working normally"

B. Smart Phone >> Get messages

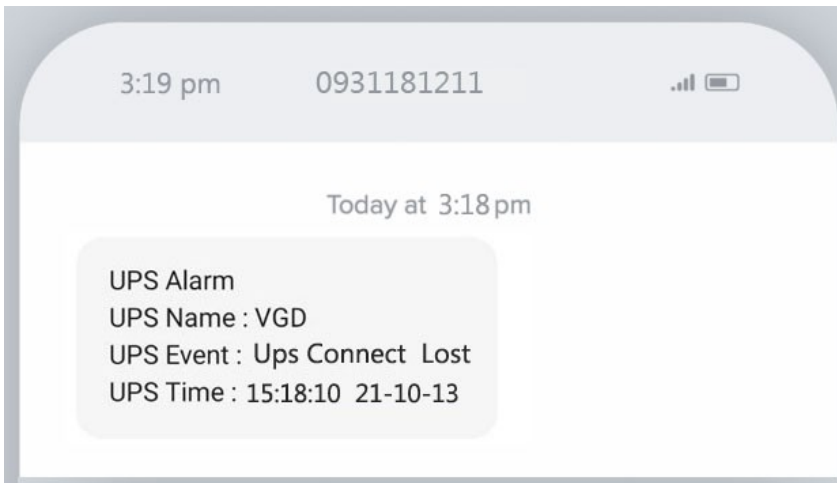
1. Alarm >> **Power failure**



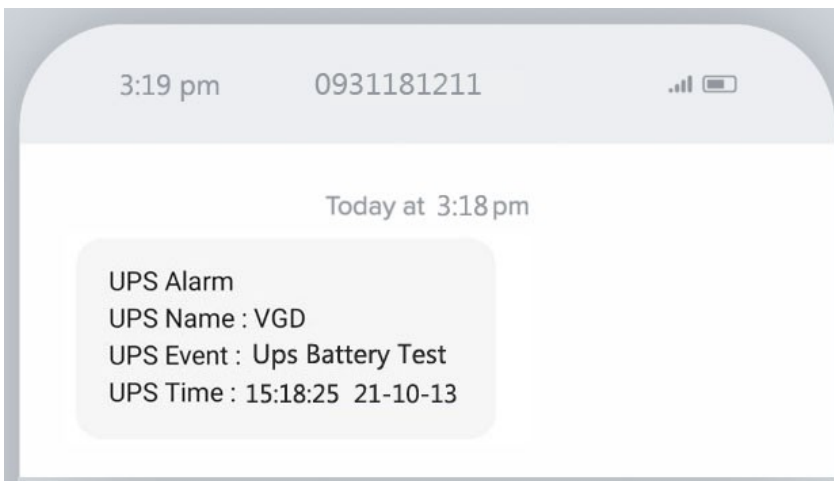
2. Alarm >> **Power restore**



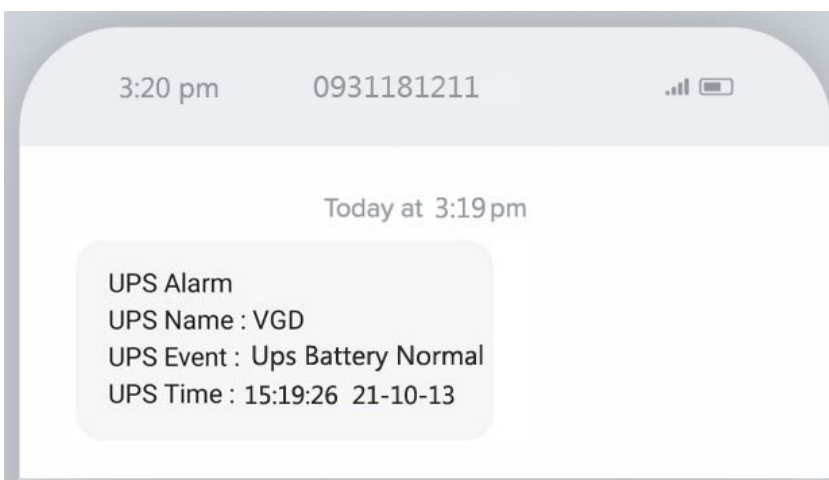
3. Alarm >> **UPS connect lost**



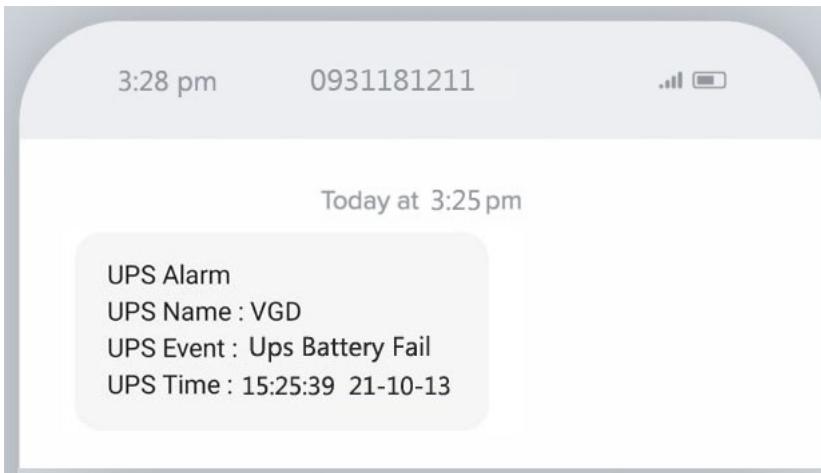
4. Alarm >> **UPS battery test**



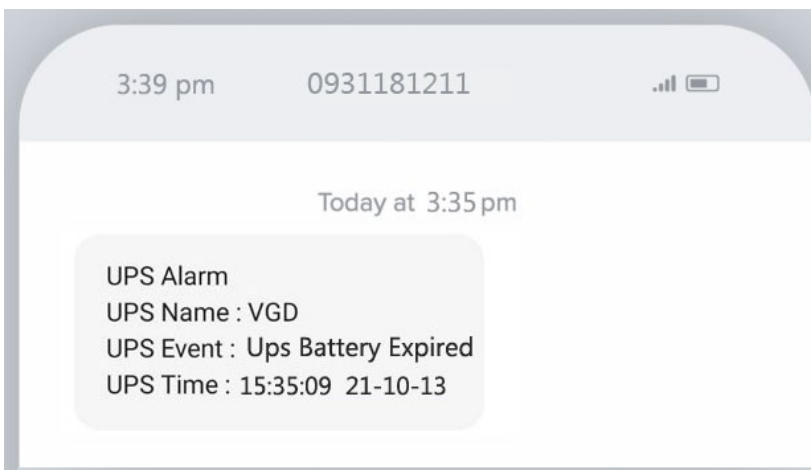
5. Alarm >> **UPS battery test normal**



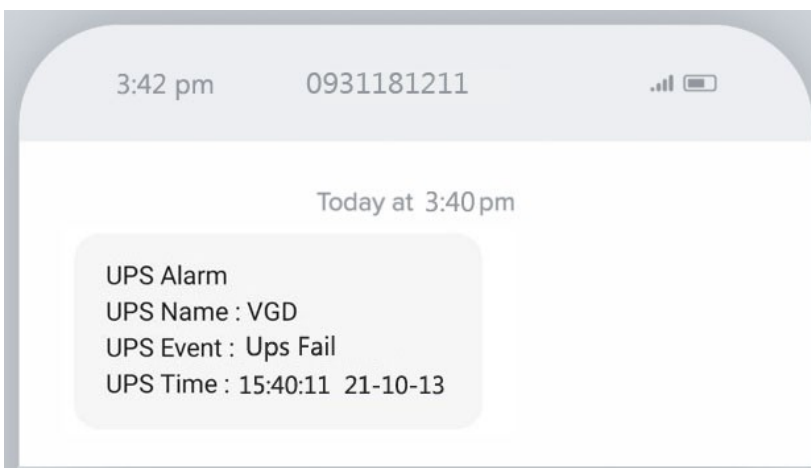
6. Alarm >> UPS battery fail



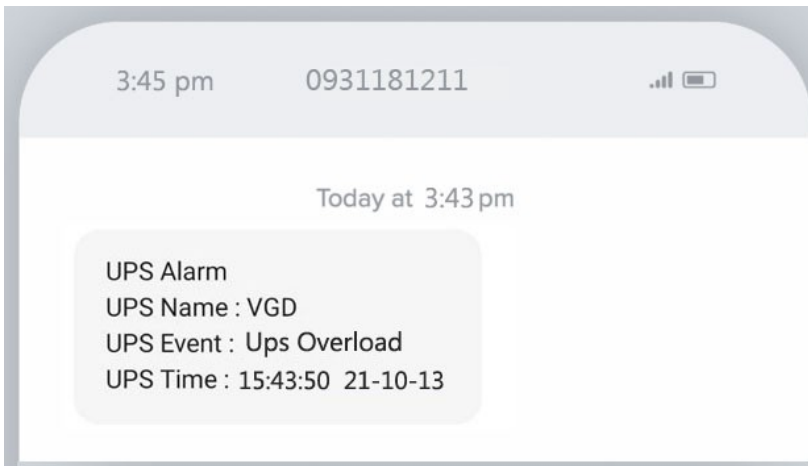
7. Alarm >> UPS battery expired



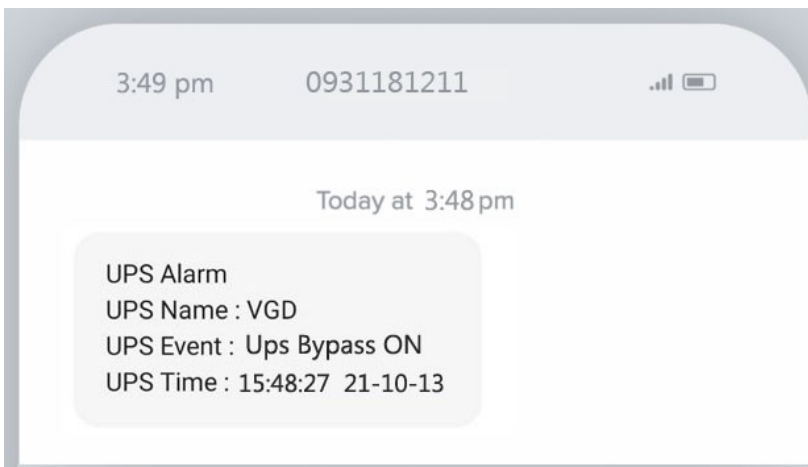
8. Alarm >> UPS fail



9. Alarm >> **UPS overload**



10. Alarm >> **UPS bypass on**



11. Alarm >> **UPS bypass off**

