

Liebert® ISWEBRT3™
User Manual



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1.0 INTRODUCTION

1.1 Features

The Liebert IS-WEBRT3 card is a new generation SNMP (Simple Network Management Protocol) UPS monitoring product. The card permits remote control of the UPS and enables reporting its current status.

The Liebert IS-WEBRT3 card is simple and easy to install: insert the card into a compatible UPS, install the Liebert DeskPro-Net™ software on the included CD on a Windows® operating system and configure the IP address. All other configuration may be done with a Web browser.

The Liebert IS-WEBRT3 card also provides shutdown, using Liebert MultiLink™, for different operating systems. It can be configured to send a shutdown command for such events as utility power failure and low battery.

1.1.1 Features

- Provides SNMP MIB to monitor and control UPS
- Auto-senses 10M/100M fast Ethernet
- Manages and configures via Telnet, Web browser or NMS
- Supports TCP/IP, UDP, SNMP, Telnet, SNTP, PPP, HTTP, SMTP protocol
- Sends both SNMP traps and e-mails for event notification
- Automatically e-mails a daily UPS history
- Matches with shutdown software to protect computer's file saving and shut down safely

1.2 Applications

1.2.1 Liebert IS-WEBRT3 Card Web Interface

The system administrator can use a Web browser to check the status of all UPSs where a Liebert IS-WEBRT3 has been installed. The administrator can access a UPS by entering its IP address in the browser. When utility power surges, sags or fails, the Liebert IS-WEBRT3 can, if so configured, also send the trap information to the system manager to take proper action.

1.2.2 Liebert Web Card Provides Shutdown Utilities

A computer on the network with the Liebert IS-WEBRT3 card and DeskPro-Net Utility installed can locate all Liebert IS-WEBRT3 cards on the network. Liebert MultiLink can be set up to close open files and perform a graceful system shutdown when a UPS with a Liebert IS-WEBRT3 card experiences an input power failure or low battery.

Liebert MultiLink

Liebert MultiLink software is available at multilink.liebert.com

User manuals for Liebert MultiLink are available at the Liebert Web site: multilink.liebert.com

2.0 WHAT'S INCLUDED

- Liebert IS-WEBRT3 card
- Liebert Web Card CD, including:
 - DeskPro-Net Utility: Configure Liebert Web Card UPS IP address, update firmware
 - Liebert IS-WEBRT3 card user manual, SL-52665
 - Liebert IS-WEBRT3 card MIB

Figure 1 Liebert IS-WEBRT3 card



3.0 INSTALLATION

Before using the Liebert Web Card, the hardware and software configuration is necessary.

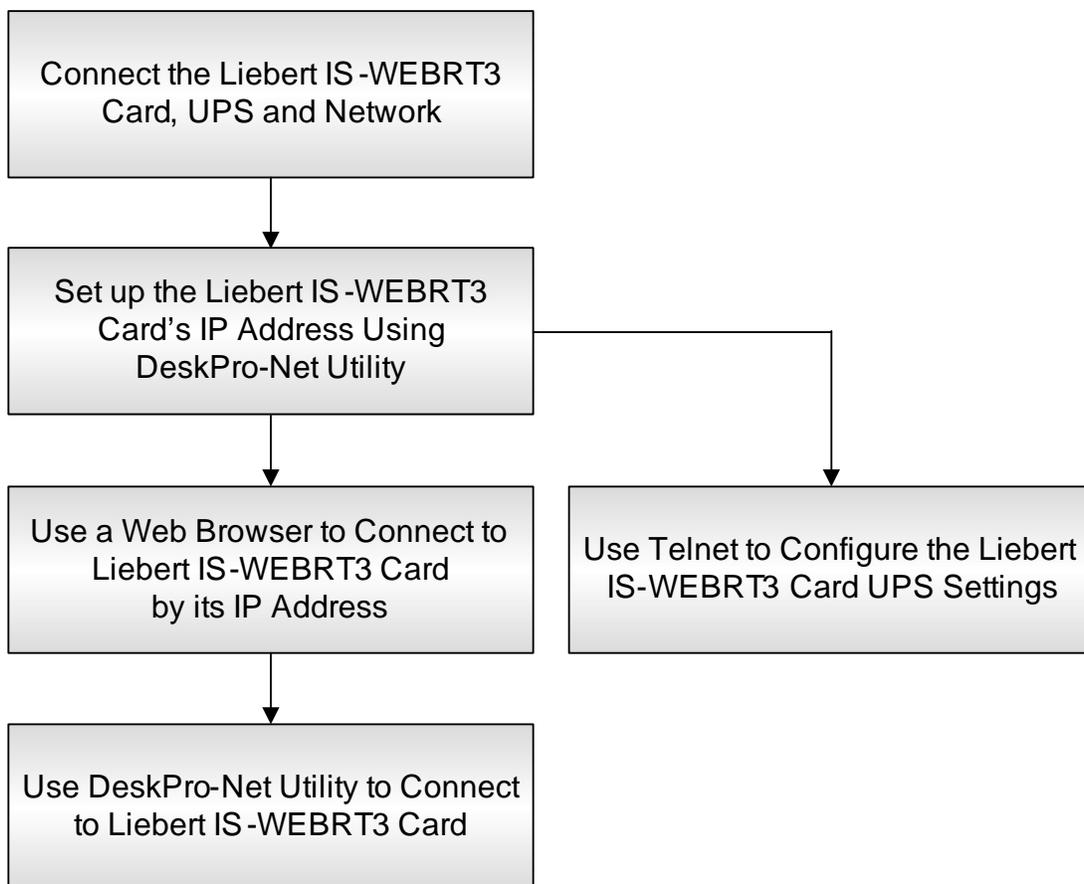
1. Install the Liebert IS-WEBRT3 card in the Liebert IntelliSlot[®] bay on the UPS.
The bay may be protected with a plastic cover.
2. Attach an RJ-45 Ethernet cable, CAT5 or better, to the card and to your network.
3. Install Liebert DeskPro-Net Utility on your computer.
 - a. Insert the included DeskPro-Net Utility CD in the monitoring computer.
 - b. Follow the prompts to install the software.

After complete installation, DeskPro-Net Utility will appear in **Start>Programs**.

Figure 2 Liebert IS-WEBRT3 installation



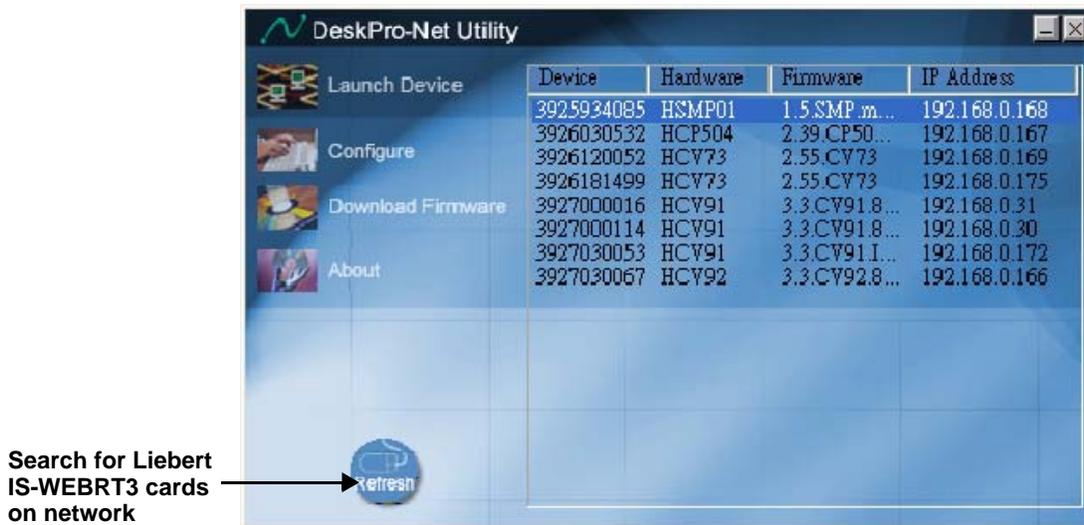
Figure 3 Installation steps



4.0 USING DESKPRO-NET UTILITY

DeskPro-Net Utility's main window is shown in **Figure 4**. The left side of the window shows the main functions. The list at right shows the Liebert IS-WEBRT3 cards found on the network.

Figure 4 Liebert DeskPro-Net Utility main window



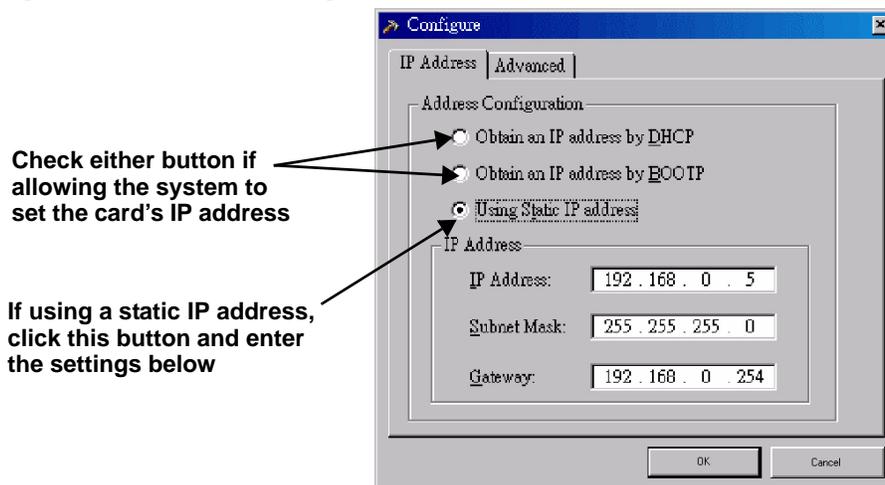
4.1 Launch the Liebert IS-WEBRT3 Card

1. Start DeskPro-Net Utility by clicking on **Start>Programs>DeskPro-Net Utility**.
2. Click **Launch Device** or double-click a Liebert IS-WEBRT3 card in the table to launch it.
3. Logon to the card by entering the Account (Login Name) and Password (Login Password) set earlier. If an account and password have not been set, click **Apply** to login.

4.2 Configure the Liebert IS-WEBRT3 Card

1. Select the Liebert IS-WEBRT3 card from the right side of the screen and click **Configure**; the window in **Figure 5** opens.
2. If using a static IP address, set the card's IP address, subnet mask and gateway. See your network administrator for the settings.
3. After making the settings, open a Web browser, such as Microsoft's Internet Explorer®.
4. Enter the card's IP address to connect to the card's Web interface.

Figure 5 Network settings window



The Liebert IS-WEBRT3 card can be used with DHCP or BOOTP, permitting the system to assign an IP address, Subnet Mask and Gateway.

4.3 Advanced Liebert Web Card UPS Setting

DeskPro-Net Utility provides two security functions:

- DeskPro Net Password
- Management Protocol

4.3.1 Enable DeskPro Net Password or Management Protocol

To enable the password function:

1. Start DeskPro-Net Utility by clicking on **Start>Programs>DeskPro-Net Utility**.
2. Click the **Configure** function and select the Advanced tab.
3. Enter a password in the first box and enter it a second time as confirmation in the box below.



NOTE

After setting a password, write it down and keep it accessible: Without the password, it will not be possible to give any commands to the Liebert IS-WEBRT3 card using DeskPro-Net Utility software

To enable the Management Protocol function:

1. Start DeskPro-Net Utility by clicking on **Start>Programs>DeskPro-Net Utility**.
2. Click the **Configure** function and select the Advanced tab.
3. Check the boxes to enable the HTTP and Telnet function and enter port numbers.

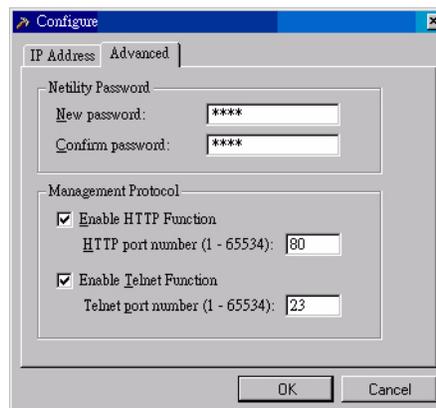
The Liebert IS-WEBRT3 card UPS provides HTTP(WEB) and Telnet to reference any related parameter setting for the manager. Concerning security, the manager could use any advanced port setting with the above two methods. Followings are the descriptions:

1. At advanced setting, two functions were set as activated by using port number 80 and 23.
2. If the boxes are unchecked, the functions will not be available.
3. When set to the other port value, the full IP address must be entered in order to login to the website or Telnet.

For example,

- If “81” is set as the HTTP port number, then *http://192.168.0.177:81* must be typed as the Web address to connect to Liebert IS-WEBRT3 card UPS’s interface.
- If “24” is set as the Telnet port number, then *192.168.0.177 24* must be typed at Telnet to proceed to the Telnet screen of Liebert IS-WEBRT3 card.

Figure 6 Advanced setting of Liebert IS-WEBRT3 card UPS



4.3.2 Download Firmware

To upgrade the Liebert IS-WEBRT3 card's firmware, click **Download Firmware** on the DeskPro-Net Utility Setup menu, click **Browser**, select the new firmware file (*.bin) and press **Start**.

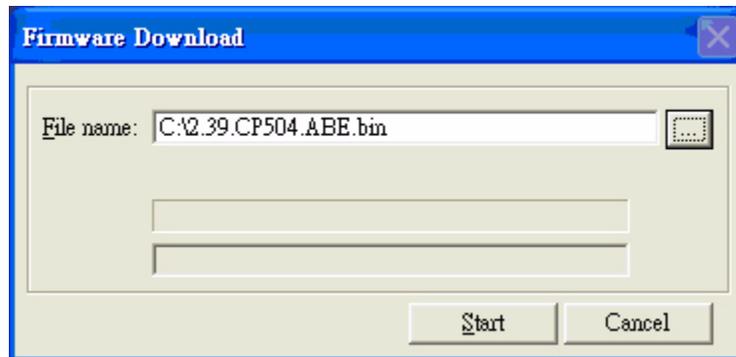
The Liebert IS-WEBRT3 card's red LED and yellow LED flashing alternately means the firmware is upgrading. After the upgrade is completed, the Liebert IS-WEBRT3 card will reboot automatically.



NOTE

The Liebert IS-WEBRT3 card protects against interruptions in the upgrade. If the upload is interrupted and incomplete, the Liebert IS-WEBRT3 card will retain its current firmware to avoid data loss. If the upload is incomplete, repeat "firmware upload."

Figure 7 Update Liebert IS-WEBRT3 card firmware



4.3.3 Refresh

Liebert DeskPro-Net Utility automatically searches the network for new cards and obtains new data from cards already configured. The Refresh function manually prompts the software to search the network for new Liebert IS-WEBRT3 cards and obtain new data.



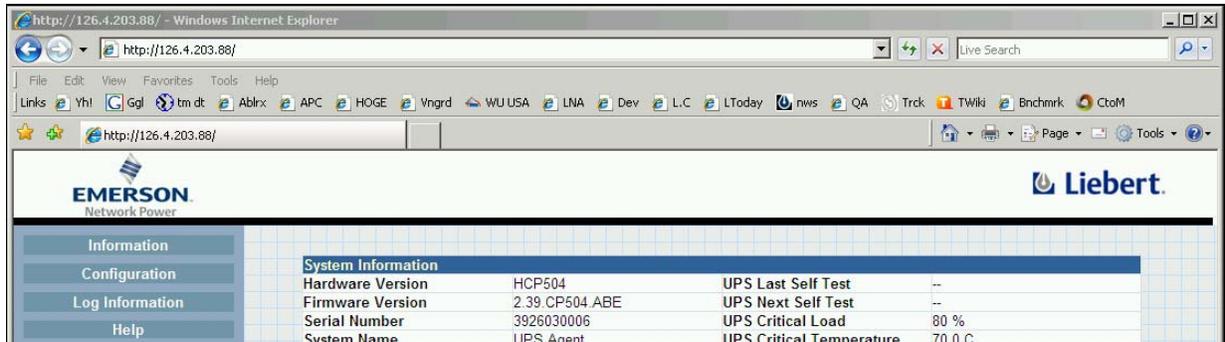
5.0 UPS WEB MANAGEMENT BY LIEBERT IS-WEBRT3 CARD

5.1 Introduction

After installing the Liebert IS-WEBRT3 card, including hardware installation and setting its IP address, users can access the card's Web interface to monitor and control the UPS where the card is installed.

1. Open a Web browser, such as Internet Explorer.
2. Enter the Liebert IS-WEBRT3 card IP address, set previously with DeskPro-Net Utility (211.21.67.51 in the example in **Figure 8**).

Figure 8 Input Liebert IS-WEBRT3 card UPS IP address



3. When prompted, enter the password. If no password has been set, press the Enter key or click **OK**.

Figure 9 Liebert IS-WEBRT3 card UPS login dialog



Fig.

5.2 Liebert IS-WEBRT3 Card UPS Web Interface

Enter the Liebert IS-WEBRT3 card's Web interface. There are four main function items in the first Web page:

- Information
- Configuration
- Log Information
- Help

Enter the main function item; the sub-menu items will be shown on the left side of the page. When connecting to the Liebert IS-WEBRT3 card for the first time, please enter the **Config** menu item to set all the configuration items.

5.2.1 Information

Sub-Menu

- System Status
- Basic Information
- Current Status
- Remote Control
- Meter/Chart

System Status

This page shows the Liebert IS-WEBRT3 card system information and Network settings. Values shown here are either provided by the Liebert IS-WEBRT3 card or they are user settings from the Configuration pages.

System Information

This section shows the Liebert IS-WEBRT3 card system information. Values in Hardware Version/Firmware Version/Serial Number/System Time are provided by the Liebert IS-WEBRT3 card. Other values are user settings from the Configuration pages.

Network Status

This section shows the Liebert IS-WEBRT3 card Network settings. The MAC address is provided by the Liebert IS-WEBRT3 card. All other values in this section are user settings from the Configuration pages.

Figure 10 System status

System Information			
Hardware Version	HCP504	UPS Last Self Test	--
Firmware Version	2.39.CP504.ABE	UPS Next Self Test	--
Serial Number	3926030532	UPS Critical Load	80 %
System Name	UPS Agent	UPS Critical Temperature	70.0 C
System Contact	administrator	UPS Critical Capacity	10 %
Location	My Office		
System Time	2008/03/21 07:42:50		
Uptime	3 day(s) 23:38:04		
Warning will be initiated 10 minute(s) before Scheduled Shutdown Event			
Send Email for Daily Report			
Network Status			
MAC Address	00:03:EA:02:78:C4	Primary DNS Server	168.95.1.1
Connection Type	Auto Sense	Secondary DNS Server	
IP Address	192.168.0.167	Time Server	time.nist.gov
Subnet Mask	255.255.255.0	PPPoE IP	
Gateway	192.168.0.3		
Email Server			

5.2.2 Basic Information

This page show the UPS basic information. Values here are either provided by the UPS or they are user settings from the Configuration pages.

UPS Information

Information about UPS Manufacturer/UPS Firmware Version/UPS Model are provided by the UPS.

Battery Information

Values here are user settings from the Configuration pages.

Rating Information

Values here are user settings from the Configuration pages.

Figure 11 Basic information

UPS Information	
UPS Manufacturer	ON-LINE
UPS Firmware Version	H05E9A5
UPS Model	500VA
Battery Information	
Last Battery Replaced Date	2003/01/01
Number of Battery	2
Battery Charge Voltage	2.267V
Rating Information	
Voltage Rating	120.0V
Frequency Rating	50.0Hz
Battery Voltage Rating	24.0V

5.2.3 Current Status

This page shows the UPS current status. Users can choose an interval from the drop-down box to refresh the status readings.

UPS Status

This section shows the UPS power status. The abnormal status will be displayed in red when there is a power event.

Input Status

This section shows the UPS input status, including AC Status/Input Voltage/Input Frequency. Values here will be shown in red when an abnormal status condition occurs.

Output Status

This section shows the UPS output status, including Output Voltage/Output Status/UPS Loading. Values here will be shown in red when an abnormal status condition occurs.

Battery Status

This section shows the UPS Battery Status, including Temperature/Battery Status/Battery Capacity/Battery Voltage/Time on Battery. Values here will be shown in red when an abnormal status condition occurs.

Figure 12 Current status

Refresh status every <input type="text" value="10 seconds"/>	
UPS Status	UPS Normal
Input Status	
AC Status	Normal
Input Line Voltage	115.0 V
Input Max. Line Voltage	115.0 V
Input Min. Line Voltage	112.0 V
Input Frequency	59.9 Hz
Output Status	
Output Voltage	117.0 V
Output Status	On line
UPS loading	0 %
Battery Status	
Temperature	27.0C (80.6F)
Battery Status	Battery Normal
Battery Capacity	100 %
Battery Voltage	28.44 V
Time on Battery	00:00:00

5.2.4 Remote Control

This page provides remote UPS test functions. Choose the test item, then click on **Apply** to execute it. (Please refer to the UPS manual for individual UPS Test functions.)

If you are using a Contact Closure UPS, you will only be able to use the function **Turn off UPS when AC Failed**.

Cancel Test

This function aborts a test when it is executing.

Turn Off UPS When AC Failed/Reboot UPS

Selecting **Turn off UPS when AC failed** will turn off the UPS. You can reboot the UPS by selecting **Reboot UPS**.

Put UPS in Sleep mode for __ minutes/Wake up UPS

When the UPS is put into Sleep mode, it will not provide power. The UPS will provide power after exiting Sleep mode.

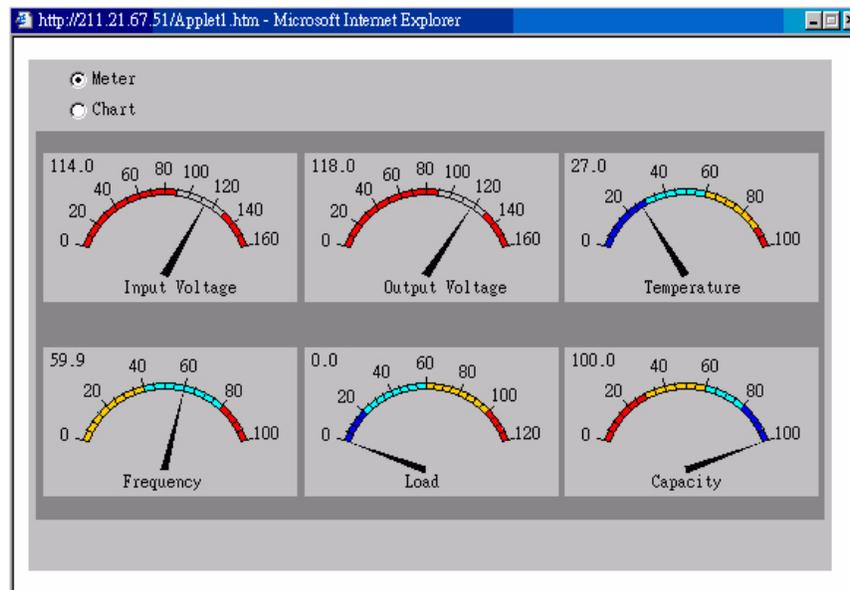
Figure 13 Remote control

UPS Testing	
<input checked="" type="radio"/>	10-Second Test
<input type="radio"/>	Deep Battery Test until for <input type="text" value="10"/> minute(s)
<input type="radio"/>	Test Until Battery Low
Miscellaneous	
<input type="radio"/>	Cancel Test
<input type="radio"/>	Turn off UPS when AC Failed
<input type="radio"/>	Put UPS in Sleep mode for <input type="text" value="60"/> minute(s)
<input type="radio"/>	Wake up UPS
<input type="radio"/>	Reboot UPS
<input type="radio"/>	UPS Buzzer On/Off

5.2.5 Meter/Chart

This page displays the UPS's temperature, capacity, load, voltage, etc., with meter diagrams.

Figure 14 Meter/Chart



5.3 Configuration

Sub-Menu

- UPS Configuration
- UPS On/Off Schedule
- Network
- SNMP
- Email
- WEB/Telnet
- System Time
- Language

Please set each parameter correctly, so that Liebert IS-WEBRT3 card operates properly.



NOTE

This page's selection will differ according to the different interface of the UPS.

5.3.1 UPS Configuration

This page is used to set the UPS configuration. Any incorrect settings will cause incorrect display values or disconnection between the UPS and Liebert IS-WEBRT3 card.

UPS Properties

UPS Communication Type—This section is used to set up the communication interface of the UPS. (e.g., Contact Closure/RS232/3 phase, etc.) Please refer to the UPS manual to set the correct communication type. Any incorrect settings will cause disconnection between the UPS and Liebert IS-WEBRT3 card .

UPS Rating Voltage(V)—This section is used to set the UPS Rating Voltage. (Unit: Volt). Refer to the UPS manual for details.

Number of Battery—This is used to set the UPS battery unit number. Please refer to the UPS manual.

Battery Charge Voltage—This section is used to set the UPS battery Charge Voltage. (Unit: Volt). Refer to the UPS manual for details.

Last Battery Replaced Date (mm/dd/yyyy)—This section is to record the date when the UPS battery was last replaced.

UPS Recorded

UPS Data Log —This section is used to set how often the UPS data should be logged.

Test UPS

Test UPS for every—This section is used to schedule the UPS to test once a week or once every two weeks.

Test UPS on Weekday—This section is used to set the UPS to test on a particular day of a week.

Time of UPS Testing (hh:mm)—This section is used to set the UPS to test at a certain time on the test day.

Warning Threshold Value

Time Out when Connection Lost—This is used to set a certain period of time before sending a disconnection warning. When the Liebert IS-WEBRT3 card loses contact with the UPS it will send a disconnection warning message after this certain period of time.

Critical Loading (%)—This section is used to set the UPS critical loading (shown as %). The Liebert IS-WEBRT3 card will send a warning message when the UPS is overloaded.

Critical Temperature (C)—This section is used to set the UPS critical internal temperature. Liebert IS-WEBRT3 card will send warning messages when the UPS overheats.

Figure 15 UPS configuration

UPS Properties	
UPS Communication Type	RS232
Date of last battery replacement (yyyy/mm/dd)	
UPS Recorded	
UPS Data Log	1 minute
Test UPS	
Test UPS every	None
Test UPS on Weekday	Monday
Start Time of UPS Test (hh:mm)	
Warning Threshold Value	
Time out after loss of connection	30 seconds
Critical Load (%)	80
Critical Temperature (C)	70.0
Critical Capacity (%)	10

5.3.2 UPS On/Off Schedule

This page is used to schedule On/Off time for the UPS.

This page is used to schedule the UPS for automatic start and shutdown.

Weekly Schedule

This section is to set the time to turn the UPS On/Off each day of the week.

Date Schedule

This section is to set the time to turn on/off the UPS on particular days. (Eg, holidays.) The settings here override the settings in the Weekly Schedule.

Warning Will be Initiated _ Before Schedule Shutdown Event

The Liebert IS-WEBRT3 card will send a warning message before a scheduled shutdown. This section sets the delay time after the message is sent until the scheduled shutdown begins.

Figure 16 UPS On/Off schedule

Weekly Schedule		
	Turn On (hh:mm)	Turn Off (hh:mm)
Sunday	<input type="text"/>	<input type="text"/>
Monday	<input type="text"/>	<input type="text"/>
Tuesday	<input type="text"/>	<input type="text"/>
Wednesday	<input type="text"/>	<input type="text"/>
Thursday	<input type="text"/>	<input type="text"/>
Friday	<input type="text"/>	<input type="text"/>
Saturday	<input type="text"/>	<input type="text"/>

Date Schedule		
Date (mm/dd/yyyy)	Turn On (hh:mm)	Turn Off (hh:mm)
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Warning will be initiated before Schedule Shutdown Event

5.3.3 Network

This page is used to set the Liebert IS-WEBRT3 card Network settings.

IP Address—This section is used to set the Liebert IS-WEBRT3 card IP address.

Subnet Mask—This section is used to set the Liebert IS-WEBRT3 card Subnet Mask.

Gateway—This section is used to set the Liebert IS-WEBRT3 card Gateway.

Obtain an IP address—This section is used to choose to set Liebert IS-WEBRT3 card IP address manually or via DHCP.

The four sections above can be set in Liebert DeskPro-Net as well. The Liebert IS-WEBRT3 card will reboot after any of the above are changed.

DNS Server IP

Primary DNS Server IP—This section is used to set the Liebert IS-WEBRT3 card primary DNS Server IP address.

Secondary DNS Server IP—This section is used to set the Liebert IS-WEBRT3 card secondary DNS Server IP address. The Liebert IS-WEBRT3 card will use the secondary DNS Server IP address when the Primary DNS Server IP address is not working.

Ethernet

Connection Type—This section is used to set the communication speed between Liebert IS-WEBRT3 card and Network. The Liebert IS-WEBRT3 card will reboot after Connection Type is changed.

Figure 17 Network

IP Address	
IP Address	<input type="text" value="211.21.67.51"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Gateway	<input type="text" value="211.21.67.49"/>
Obtain an IP address*	<input type="text" value="By manual"/>
DNS Server IP	
Primary DNS Server IP	<input type="text" value="192.168.0.1"/>
Secondary DNS Server IP	<input type="text"/>
Ethernet	
Connection Type*	<input type="text" value="Auto Sense"/>

* : NetAgent will be rebooted when these items had been modified.

5.3.4 SNMP

This page is to set Liebert IS-WEBRT3 card SNMP settings so it can be used by an NMS (Network Management System).

MIB System

System Name—This section is used to give a name to a Liebert IS-WEBRT3 card.

System Contact—This section is used to list a name for the administrator.

System Location—This section is used to set the Liebert IS-WEBRT3 card's location.

Access Control

Manager IP Address—This section is used to set the IP address so that the administrator can manage the Liebert IS-WEBRT3 card. It is valid for up to eight IP addresses. To manage the Liebert IS-WEBRT3 card from any IP address, enter *.*.*.* into the IP address.

Community—This section is used to set a Community name for NMS. The community name must be the same as the setting in NMS.

Permission—This section is used to set options for administrators. Options are Read, Read/Write, and No Access.

Description—This section is available for an administrator to make notes.

Trap Notification

Receiver IP Address—This section is used to set the receivers' IP address for traps sent by the Liebert IS-WEBRT3 card. It is valid for up to eight IP addresses.

Community—This section is used to set a Community name for an NMS. The community name must be as the same as the setting in the NMS.

Severity—This section is to set Trap receiver levels. There are three levels of Trap receiver:

- Information: To receive all traps.
- Warning: To receive only “warning” and “severe” traps.
- Severe: To receive only “severe” traps.
- (Please refer to NMS manual for Trap levels.)

Accept—This section is to set whether the Destination IP Address will Accept traps.

Description—This section is available for an administrator to make notes.

Event—This section is used to select the events that will be sent to the associated IP address. Clicking on **Select** will open a Select Events List. Event Traps may be selected from this list.

Figure 18 SNMP

MIB System					
System Name		System Contact		System Location	
UPS Agent		Administrator		My Office	

Access Control			
Manager IP Address	Community	Permission	Description
****	public	Read/Write	
	public	No Access	

Trap Notification					
Receiver IP Address	Community	Severity	Accept	Description	Events
	public	Information	No		Select
	public	Information	No		Select
	public	Information	No		Select
	public	Information	No		Select
	public	Information	No		Select
	public	Information	No		Select
	public	Information	No		Select
	public	Information	No		Select

Device Connected		
Device	Rating (%)	Connected
	0	NO

2.2.5 E-mail

This page is used to set e-mail details for use by Liebert IS-WEBRT3 card.

Email Server—This section is used to enter the name of the e-mail server (i.e., SMTPserver.liebert.com).

Sender’s Email Address—This section is to set the Liebert IS-WEBRT3 card’s e-mail address.

Email Server Requires Authentication—This section is used to set whether the e-mail server requires authentication.

Account Name—This section is used to set an e-mail account name when the email server requires authentication.

Password—This section is used to set a password when the e-mail server requires authentication.

Send Email When Event Occurs—This section is used to set the Liebert IS-WEBRT3 card to send warning e-mail when an event occurs.

Recipient’s Email Address (for Event Log)—This section is used to designate e-mail addresses to receive warning e-mails sent by the Liebert IS-WEBRT3 card when an event occurs. It is valid for up to eight e-mail addresses.

Event—This section is used to select events for the Liebert IS-WEBRT3 card to send e-mail warnings. Clicking on **Select** will open a Select Events List. Event e-mail may be selected from this list.

Recipient's Email Address (for Daily Report)—This section is used to set e-mail addresses to receive the Daily Report e-mail sent by the Liebert IS-WEBRT3 card when an event occurs. It is valid for up to four e-mail addresses.

Send Email for Daily Report (hh.mm.ss)—This section is used to set a particular time for the Liebert IS-WEBRT3 card to send Daily Report every day.

Figure 19 E-mail

Email Setting			
Email Server	<input type="text"/>		
Sender's Email Address	<input type="text"/>		
Email Server Requires Authentication	NO <input type="button" value="v"/>		
Account Name	<input type="text"/>		
Password	<input type="text"/>		
Send Email When Event Occurs	NO <input type="button" value="v"/>		
Recipient's Email Address (for Event Log)		Events	
Account1	<input type="text"/>		Select
Account2	<input type="text"/>		Select
Account3	<input type="text"/>		Select
Account4	<input type="text"/>		Select
Account5	<input type="text"/>		Select
Account6	<input type="text"/>		Select
Account7	<input type="text"/>		Select
Account8	<input type="text"/>		Select
Recipient's Email Address (for Daily Report)			
Account1	<input type="text"/>		
Account2	<input type="text"/>		
Account3	<input type="text"/>		
Account4	<input type="text"/>		
Send Email for Daily Report (hh:mm:ss)	NO <input type="button" value="v"/>	at	<input type="text"/>

5.3.5 WEB/Telnet

This page is used to set up the User Account in the Liebert IS-WEBRT3 card.

User Name—This section is used to set a user name for the Liebert IS-WEBRT3 card Web pages. It is valid for up to eight users. Users must enter the user name to access the Liebert IS-WEBRT3 card Web pages from a Web browser.

Password—This section is used to set a password for the Liebert IS-WEBRT3 card Web pages. Users must enter the password to access the Liebert IS-WEBRT3 card Web pages from a browser.

Permission—This section is used to set user's authorizations of Read or Read/Write.

IP Filter—This section is used to set a particular IP address. Users can gain access to the Liebert IS-WEBRT3 card Web pages only if they come from this IP address. To enable managing the Liebert IS-WEBRT3 card from any IP address, set it as *.*.*.*

Figure 20 WEB/Telnet

User Account			
User Name	Password	Permission	IP Filter
afdafdasdfas	*****	Read/Write	***
guest	*****	Read	***
		Read/Write	***

5.3.6 System Time

This page is used to set the Liebert IS-WEBRT3 card system time. The Liebert IS-WEBRT3 card can be designated to have as many as two time servers; a time zone may also be entered.

Time Between Automatic Updates—This section is used to set an interval for time synchronization.

Primary Time Server / Secondary Time Server—This section is used to set a Primary Time Server and a Secondary Time Server for the Liebert IS-WEBRT3 card.

Time Zone (Relative to GMT)—This section is used to set a different time zone for different countries.

System Time (mm/dd/yyyy hh:mm:ss)—This section is used to set the Liebert IS-WEBRT3 card system time manually. Set this in the format: mm/dd/yyyy hh:mm:ss

Figure 21 System time setting

System Time	
Time Between Automatic Updates	1 Hour
Primary Time Server	128.118.46.3
Secondary Time Server	128.250.36.2
Time Zone (Relative to GMT)	GMT+8:00
<input type="button" value="Apply"/> <input type="button" value="Reset"/>	
System Time (mm/dd/yyyy hh:mm:ss)	08/26/2003 11:29:35
<input type="button" value="Apply"/> <input type="button" value="Reset"/> <input type="button" value="Help"/>	

5.3.7 Language

This page is used to set the language for the Liebert IS-WEBRT3 card.

Interface Language—This section is used to set the language for the Liebert IS-WEBRT3 card's Web pages. When users view the Liebert IS-WEBRT3 card in a browser, the card will automatically detect the language used by the computer system and show that language on its Web pages. Users can also choose other languages from the **Interface Language** list.



NOTE

Users must enable cookies before this function is available.

Email Preferences—This section is used to set the language for e-mail sent by the Liebert IS-WEBRT3 card.

Figure 22 Language

Interface Language

English

Chinese (Traditional)

Chinese (Simplified)

Korean

Japanese

German

Portuguese

Spanish

(Note: Setting preferences will not work if you have disabled cookies in your browser.)

Email Preferences

Use above interface language in Email and SMS notification

5.4 Log Information

Sub-Menu

- Event Log
- Data Log
- Save Data Log



NOTE

This page's selection would differ according to the different interface of the UPS.

5.4.1 Event Log

This page displays a UPS Event log. It shows a record of all events, giving the Date/Time of the event and a detailed description of each. It can log up to 99 events. When this limit is reached, Liebert IS-WEBRT3 card will delete the earliest event record and continue logging new events.

Date/Time—This is a record of the Date (mm/dd/yyyy) and Time (hh:mm:ss) that the event occurred.

Description—This is a detailed description of the event.

Figure 23 Event log

Date/Time	Event
08/25/2003 20:37:01	Utility power has been restored.
08/25/2003 20:36:47	UPS has switch to battery backup power.
08/25/2003 20:36:44	Utility power has been restored.
08/25/2003 20:36:27	UPS has switch to battery backup power.

5.4.2 Data Log

This page displays a UPS data log. It records UPS Input Voltage/Output Voltage/ Frequency/ Loading/Capacity/ Temperature. It can log up to 500 events. When this limit is reached, the Liebert IS-WEBRT3 card will delete the earliest event record and continue logging new events. Logs can be saved in CSV format by clicking on **Save Data Log**.

Date/Time—This is a record of the Date (mm/dd/yyyy) and Time (hh:mm:ss) that the data was recorded. The interval between every log can be set in /Configuration/UPS configuration/UPS recorded/UPS data Log/.

Input Voltage—This section shows records of the UPS Input voltage readings in volts.

Output Voltage—This section shows records of the UPS Output voltage readings in volts.

Loading—This section shows records of the UPS Output loading as %.

Capacity—This section shows records of the UPS battery capacity as %.

Frequency—This section shows records of the UPS Input Frequency in Hz.

Temp.—This section shows records of the UPS internal temperature in degrees Celsius.

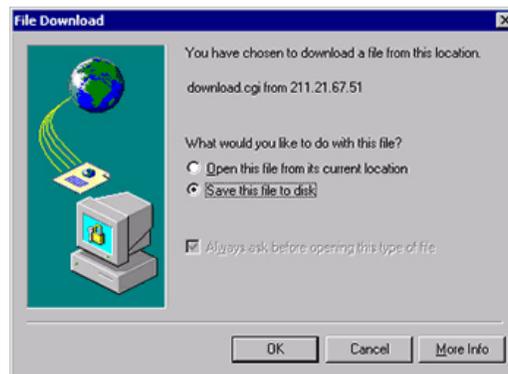
Figure 24 Date log

Date/Time	Input Volt.	Output Volt.	Freq. (Hz)	Loading	Capacity	Temp.
08/25/2003 20:32:49	115.0	117.0	60.0	0	100	26.0C 78.8F
08/25/2003 20:31:49	114.0	117.0	59.9	0	100	26.0C 78.8F
08/25/2003 20:30:47	114.0	117.0	60.0	0	100	26.0C 78.8F
08/25/2003 20:29:45	114.0	117.0	59.9	0	100	26.0C 78.8F
08/25/2003 20:28:43	114.0	118.0	60.0	0	100	26.0C 78.8F

5.4.3 Save Data Log

This function is to save a copy of the Data Log information (shown on the screen) to a file.

Figure 25 Save data log

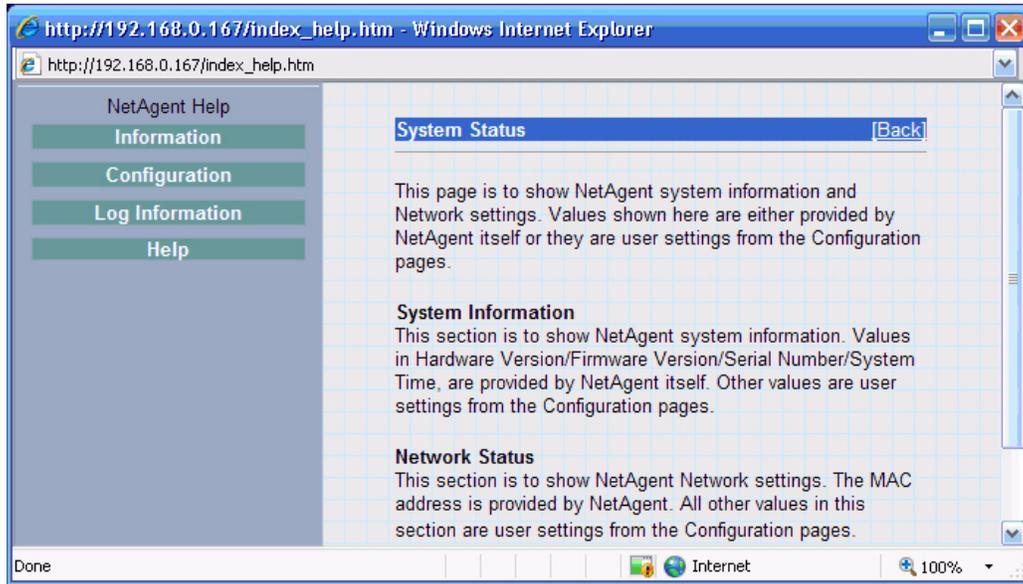


5.5 Help

Sub-Menu

- Help
- About
- Help

Figure 26 Help screen



5.5.1 About

This displays the firmware version, hardware version and serial number.

Save/Restore Settings

Save current configuration—Click **Save** to save the configuration as a text file. The text file will have a default format of YYYY_MMDD_####.cfg. Administrative permission is required.

Restore previous configuration—Use this function to restore a *.cfg configuration that has been saved earlier. Click **Browse** to the location of the file and click **Restore**.

Reset to factory default—This function will reset all settings to the default values.

6.0 TELNET—REMOTE MONITORING

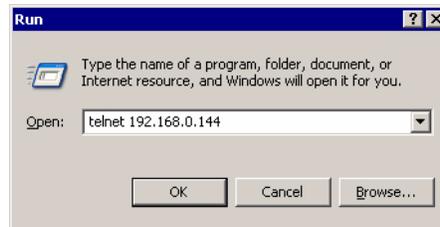
6.1 Introduction

The Liebert IS-WEBRT3 card supports multiple Network Management Systems and LAN protocols. After installing and configuring the card, you have the same configuration selections using Telnet that are available through the Web page.

6.2 Telnet Configuration

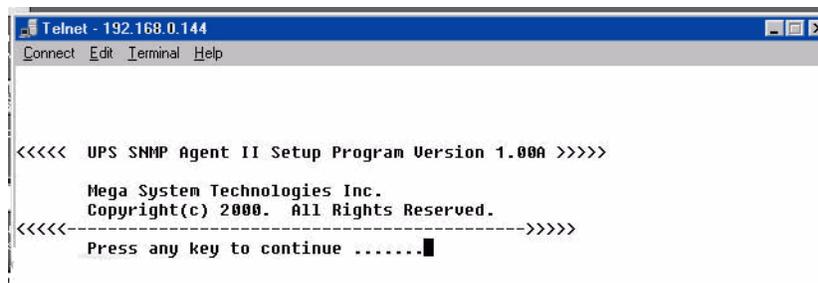
1. Click on **Start>Run** and enter *telnet* and the Liebert IS-WEBRT3 cards IP address.

Figure 27 Telnet startup



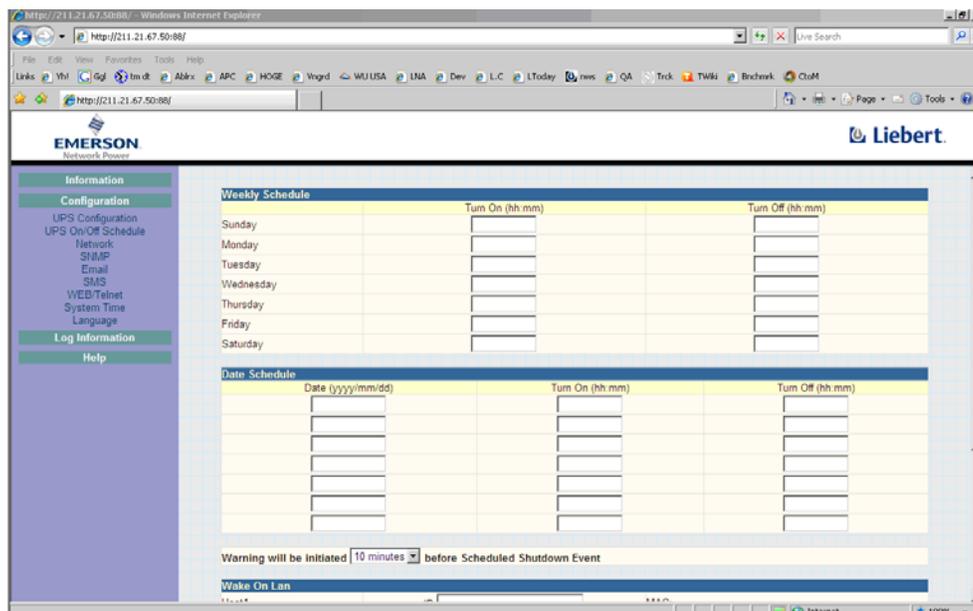
2. If the connection is successful, the window in **Figure 28** will be displayed.

Figure 28 Telnet connection



3. Press the Enter key to enter telnet main screen. If the user name and password were set previously, enter those actual values to gain access.
4. If the connection is successful, the main screen in **Figure 29** will be displayed.

Figure 29 Liebert IS-WEBRT3 card Telnet window



The main screen gives access to these functions:

- **Set IP Address**—This function allows setting up the IP address, Gateway address and Subnet Mask parameters.
- **Set SNMP MIB System**—This function allows setting up the MIB system group parameters.
- **Set SNMP Access Control**—This function allows setting up the Manager IP, Community, Access Permission.

**NOTE**

The configuration of Set SNMP Access Control is used only for SNMP Network Manager.

- **Set SNMP Trap Notification**—Add the IP address of trap receivers, community string (matching the NMS), type of traps to receive and whether the Destination IP Address should receive traps to this list.

**NOTE**

The configuration of Set SNMP Trap Receiver is only used for SNMP Network Manager.

- **Set UPS Properties**—This allows setting up the Communication Type of UPS, UPS Device Name and Battery Replacement Date.
- **Set UPS Devices Connected**—This section allows setting up the connected devices name, rating and whether the device is connected.
- **Set System Time & Time Server**—This allows setting up the System date, time and two time servers.
- **Set Web and Telnet User Account**—This is allows setting up the user accounts' authority.
- **Set E-mail**—This is allows setting up the e-mail accounts to receive power event notification for emergency management.
- **Reset Configuration to Default**—Set all values to their default values.
- **Save & Reboot**—Save the current configuration data, including any changes made, and reboot the Liebert IS-WEBRT3 card.
- **Exit Without Saving**—Exit; no configuration changes will be made.

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