USHA Series UPS SNMP HTTP AGENT

User's Manual

Version 1.02 Jan., 2020

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Electronic Emission Notice

Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

CE Notice

This device complies with the EMC directive of the European Community and meets or exceeds the following technical standard:

- EN 55032: 2015+AC: 2016, Class B
- EN 55024: 2010+A1:2015
- EN 61000-3-2: 2014
- EN 61000-3-3: 2013
- AS/NZS CISPR 32: 2015

Safety Information

• All the service of this equipment must be perform by qualified service personnel. Remove rings, watches and other jewelry before servicing the unit

Chapter 1. Introduction

USHA – acronym for UPS SNMP and HTTP Agent. It can get hold of the status from issue commands to the UPS. User can use SNMP managers or Web browsers to manage the UPS through an Ethernet. USHA also provides shutdown programs for different operating systems. It issues a shutdown command in the event such as mains failure, UPS battery low condition, UPS overload, UPS over temperature and scheduled shutdown. All shutdown events are configurable by user. The shutdown software will proceed to the automatic orderly shutdown to prevent the abnormal shut-off of the clients or servers.

1.1. Features

- Real-time UPS health monitoring
- Comprehensive UPS management and flexible configuration via Web Browser, NMS, and SNMP
- Graceful shutdown to protect up to 250 servers/workstations from data loss due to power outage
- Automatic events notification via E-mail, and SNMP Trap
- Regularly records UPS parameters for statistical analysis and event diagnostics
- Environmental Monitoring Device supported
- Standard UPS MIB and USHA-proprietary MIB supported
- Auto-sense to works in the 10/100Mbps fast Ethernet network environment
- WOL function supported
- Radius supported
- Assigned IP automatically via DHCP or BOOTP
- Scheduling shutdown/startup/reboot of UPS via remote control
- Configuration utility simplifies the firmware upgrade process
- IPv4 and IPv6 dual-stake
- SSH and SSL supported

1.2. USHA System Application

The following diagram shows how the USHA SNMP Web Card which can be used in a network application. It supports various kinds of protocol such as SNMP, HTTP...etc. Through the SNMP NMS and Web Browser, user can obtain the UPS status, issue commands of UPS and set up USHA configuration via the network. USHA also provides shutdown software tool for sending the event notifications to the connected clients. The shutdown software can be installed on various operating systems. It can communicate with the USHA automatically via a proprietary protocol. USHA will issue the shutdown command to shutdown software in the event of AC failure, battery low and scheduled shutdown. Shutdown software will proceed to the shutdown process in order to prevent the abnormal shutoff of host or server.



1.3. Package Contents

Please carefully check the USHA SNMP Card and the included accessories. If there is any missing or damaged, please contact your dealer. Should you return the related items and repacked using the original packing materials come with the unit.

No.	Item	Quantity
1	USHA SNMP Card	1 Piece
2	Mounting bracket	1 Piece
3	Utility CD (Includes Quick Installation Guide/User Manual/MIB File Shutdown Software/Discover Tool)	1 Piece

1.4. Interface of USHA SNMP Card

The interface of USHA SNMP Card includes a Network port, EMD port, and a Restart button as shown below.



No.	Item	Description
1	Network port	Connects to network.
		LED indication: LAN 10/100 link, Activity.
2	EMD port	Connects to an environmental sensor (EMD).
		LED indication: System power, System status.
3	Restart/Reset	Software restart USHA only. This will not affect the operation of UPS.
	button	Restart :
		1. Press and hold the restart button for 1~3 seconds : Warm boot.
		2. Press and hold the restart button for 3~6 seconds : Reset
		Administrator Name and Password.
		3. Press and hold this restart button for more than 6 seconds : Reset to
		factory default.
4	Dip Switch	Able to change the operation mode by the specific FW version;
	(SMART 3)	Otherwise, it is always working on the Normal operation mode.

Chapter 2. Installation

2.1. Install the USHA on UPS

Please follow the procedures below to install the USHA Card on UPS (see Figure2-1)

- **Step1.** Insert the USHA Card into the UPS slot.
- **Step2.** Lock the screws of the USHA card bracket.
- **Step3.** Procure a workstation (Microsoft Windows 7 or above installed).
- Step4. Insert the Ethernet cable into LAN port of USHA card.



(Figure 2-1: Install the USHA Card on UPS)

2.2. To find your USHA card by using Upgrade Tool

Step1. Install the Upgrade Tool on your PC

Please find the "USHA FITility v1.xx.exe" in CD contents and install the Upgrade Tool on your PC.



USHA FITILITY1.00.15.exe USHA FITILITY Installer Foxconn Interconnect Technology

Step2. Execute USHA FITility, USHA FITility will auto discover and list up the devices on your LAN.

Set IP		IP Address	MAC Address	Version	Card		
		192.168.54.31	00-e0-d8-ff-c9-c9	v1.00 a02	IX900 Series		
		192.168.54.145	de-3e-39-29-ab-62	v3.30.0	PDU		
		192.168.206.80	00-e0-d8-ff-b5-07	v1.06 alpha 27			•
Backup		192.168.54.45	00-e0-d8-ff-c1-4e	v7.01 b2			
		192.168.53.42	00-e0-d8-ff-c0-78	v7.02 b2			Refre
		192.168.53.53	00-e0-d8-ff-aa-93	v1.01 a2			
Uporade		192.168.91.185	88-c2-55-5a-72-6b	v0.90.0002.0011			
		192.168.55.1	68-9e-19-9d-6b-bb	v0.90.0002.0011			<u>(</u> 44)
		192.168.53.23	00-e0-d8-ff-8a-36				
		192.168.54.44	00-e0-d8-ff-ad-0b				Brows
		192.168.200.180	00-e0-d8-0c-e2-93				
		192.168.54.203	e4-1f-13-8c-e4-1f				
i	Π	192.168.54.222	00-e0-ff-24-12-41			V	
About							

Step3. If necessary, please select the device, then click "Set IP" to change the IP to the same network segment as your LAN.

	IP Address	MAC Address	Version	Card		
	192.168.54.31	00-e0-d8-ff-c9-c9	v1.00 a02	IX900 Series		
	192.168.54.145	de-3e-39-29-ab-62	v3.30.0	PDU		
	192.168.206.80	00-e0-d8-ff-b5-07	v1.06 alpha 27			* "
Backup	192.168.54.45	00-e0-d8-ff-c1-4e	v7.01 b2			C
	192.168.53.42	00-e0-d8-ff-c0-78	v7.02 b2			Refre
	192.168.53.53	00-e0-d8-ff-aa-93	v1.01 a2		-	
Upgrade	192.168.91.185	88-c2-55-5a-72-6b	v0.90.0002.0011			
	192.168.55.1	68-9e-19-9d-6b-bb	v0.90.0002.0011			(#)
	192.168.53.23	00-e0-d8-ff-8a-36				
	192.168.54.44	00-e0-d8-ff-ad-0b				Brows
	192.168.200.180	00-e0-d8-0c-e2-93				
	192.168.54.203	e4-1f-13-8c-e4-1f				
i	192.168.54.222	00-e0-ff-24-12-41			v	

Step4. Input Account and Password (Default: usha/admin).

USHA	🗆 Subr	nit All (Accoun	t:	Passw	vord :)	
FITility	Del	IP Address	Acc	ount	Passwo	rd	
	前 19	2.168.206.80	usha	(**	***		
	Hom	e				Next	

Step5. Input new settings and click "Next" to finish the IP setting.

USHA FITility		Ē∕ s	et IP		- ×
	IP Address : MAC Address : Gateway : Subnet Mask : O DHCP	192.168.54.43 00-e0-d8-f1-f1-f9 192.168.1.254 255.255.0.0	IP Address 192.168.54.43	MAC Address 00-e0-d8-f1-f1-f9	
	Home			Next	

Step6. Select your device and click "Browse" to open webpage.

Set IP		IP Address	MAC Address	Version	Card	
	(☑)	192.168.54.31	00-e0-d8-ff-c9-c9	v1.00 a02	IX900 Series	
		192.168.54.145	de-3e-39-29-ab-62	v3.30.0	PDU	
		192.168.206.80	00-e0-d8-ff-b5-07	v1.06 alpha 27		+
Backup		192.168.54.45	00-e0-d8-ff-c1-4e	v7.01 b2		
		192.168.53.42	00-e0-d8-ff-c0-78	v7.02 b2		Refresh
		192.168.53.53	00-e0-d8-ff-aa-93	v1.01 a2		
Upgrade		192.168.91.185	88-c2-55-5a-72-6b	v0.90.0002.0011		
		192.168.55.1	68-9e-19-9d-6b-bb	v0.90.0002.0011		(HA)
		192.168.53.23	00-e0-d8-ff-8a-36			
		192.168.54.44	00-e0-d8-ff-ad-0b			Browse
		192.168.200.180	00-e0-d8-0c-e2-93			
		192.168.54.203	e4-1f-13-8c-e4-1f			
\frown		192.168.54.222	00-e0-ff-24-12-41			

Step7. The browser displays the USHA Dashboard page.

	IP:1	92.168.100.5	UPS:D	emo_UPS	Locatio	on:			
ystem Status	9	System Status	; > Dashb	oard					
Dashboard			Ov	erview					
Current Information		O Pow	er Flow (Diagram					Voltage Real-time Chart Battery Real-time Status
25 Management eneral Settings etwork ent Notification ternal Links		UPS Sta Test Ma	atus ade 2020	endar) June	Ups T	G	o to curren	S	Capacity 200 07 200 07 200 07 200 07 300 07 400 07 400 07 500
		< >	2020	, June	Wod	Thu	Eri	Cot.	Occurred Time Alarm Description
		31	1	2	3	4	5	5at 6	
		7	8	9	10	11	12	13	
		14	15	16	17	18	19	20	
		21	22	23	24	25	26	27	

Chapter 3. Configuring with Web Browser

3.1. USHA Initial Configuration

1. Select "Network settings" from "Network" of the main menu to setup the network configuration parameters.

stem Status		25 Location:		
	Network > Network settings			
PS Management	Network settir	ngs		
eneral Settings				
etwork	IPv4		IPv6	
etwork settings	IP address	192.168.100.5	Configuration	Automatic 💌
rotocols	Gateway Address	192.168.100.110	Local Address	fe80::2e0:4cff:fe81:96c1/64
	Subnet Mask	255.255.255.0	Global Address	
	BootP/DHCP Control	Static O DHCP	Router Address	::/0
nt Notification	DNS Address 1	0.0.0.0		
encivolineation	DNS Address 2	0.0.0.0		

- 2. Login to become Administrator (default Username: usha; Password: admin)
- 3. Enter the USHA IP address.
- 4. Enter the USHA Gateway Address in the network.
- 5. Enter the USHA Subnet Mask of the network.
- 6. Click "Apply" to save the settings.
- 7. Enter "Date and Time" from General Settings> System Configuration and enter the appropriate date and time information in the specified format.

ПСНУ					8	-li! usha	Logout	English 🛩	Time: 03/06/2020 16:57:1
USHA									
	IP:192	.168.100.5 UI	PS:Demo_UPS	Location:					
System Status	Ge	neral Settings >	System Configu	uration					
UPS Management			Preferences		Upload and I	Download			
 General Settings 		Custor	e Information					_	
System Configuration Authentication Configuration Web Settings	S.	ystem Name ystem Location		GHA	Temperature Unit	°C ▼		History Log Interval	60
Firmware Upgrade EMD Configuration		Date a Current Current	nd Time Date Time	03/06/2020 16:57:22					
Network		Time Zo	ne	[GMT 00:00] G	reenwich Mean Time: Dublin, Ed	linburgh, Lisbon, L	ondon 👻		
Event Notification		O Synchronize w	ith computer time						
External Links	•	 Synchronize w Si Si 	ith NTP server erver IP: /nc Interval:		hour 💌				
		D Sat manually	aylight Saving Time	e 💿 Dis	abled () Auto				
					Reset To Default Rebo	pot App	bly		

- 8. Click "Apply" to save the date and time settings.
- 9. Select Network > Protocols to enable or disable the network protocols.

	IP:192.168.100.5 UPS:Demo_UF	PS Location:		
System Status	Network > Protocols			
UPS Management	Advance		SNMP	Firewall
General Settings				
Network	Protocols Status			
Network settings	BootP/DHCP	Disabled 🔻	SNMP Support	Enabled 🔻
Protocols	PING Echo	Enabled 💌	SMTP Support	Enabled 💌
WakeOpl AN	Network Upgrade	Enabled 🔻	NTP Control	Enabled 💌
Connections	HTTP Control	Enabled 💌	UPnP Control	Disabled 💌
Event Notification	Force Security HTTP	Disabled 💌	Modbus TCP Control	Disabled 💌
	HTTP Security Control	Disabled 🔻	Radius TCP Configuration	Disabled 🔻
External Links	SSH Connection	Enabled 💌		
	Protocols Setting			
	Force Security HTTP	443		
	HTTP Port	80		
	SSH Connection Port	22		
	SNMP Port	161		
	SMTP Port	25		
	Modbus Port	502		
			Apply	

10. Click "Apply" to save the changes.

3.2. System Status Position

In System Status, you can check the real time operating status of the UPS, Schedule, Alarm and other product information.

3.2.1. Dashboard

In Dashboard, You can check the operating status, schedule, and others of the UPS. This page will refresh automatically.



Power Flow Diagram

This area displays the UPS input/output power supply status using a diagram. The most important is the "Operating Status" light at the lower left. If the "Operating Status" light turns yellow or red, please check the "Active Event List".

Voltage Real-time Chart

This chart displays the input/output voltages of the UPS in real-time in graph format.

Battery Real-time Status

Voltage: Displays the voltage of the built-in battery of the UPS. Temperature: Displays the temperature of the UPS Capacity Remaining: Displays the rough charged level of the built-in battery of the UPS.

History Log of Output Load

This chart displays the power consumption of the devices connected to the UPS as percentages.

Schedule Calendar

UPS schedules can be checked for each month.

Active Alarm List

This table displays the currently active alarms.

3.2.2. Current Information

You can check the statuses of the UPS and battery, the latest alarm and schedule.

USHA			😬 Hi! usha (Dogout	English V Time: 28/09/2020 13:42
××110	IP-192 168 100 5 LIPS-AS+1K	Location:		
System Status	System Status > Current Inform	nation		
Dashboard	Overview			
Current Information				
EMD	Input		Output	
LIPS Management	Input Number Lines	1	Output Status	Normal
Si Si Management	Input Line Bads	0	Output Number Lines	1
General Settings	Input Voltage	114.7	Output Voltage	0.0
Network	Input Max. Voltage	114.8	Output Load	0.0
Event Notification	Input Min. Voltage	114.7		
xternal Links	Input Frequency	59.9		
	Rating Group		Battery	
	Rating Voltage	115	Battery Status	Battery Ok
	Rating Frequency	60	Temperature (°C)	0.0
	Rating Current	8	Battery Capacity Remaining (%)	100
	Rating Battery Voltage	24.0	Time since on Battery Power (Sec)	0
			Battery Runtime Remaining (Sec)	90928
	Event/Schedule			
	Last Event		Communication to the UPS has bee	n lost
	Last Battery Test Time			
	Battery Next Test Time		None	
	UPS Next Off Time		None	
	UPS Next On Time		None	

3.2.2.1. Input

Input Voltage

This shows the current input voltage in Volts.

Input Max. Voltage

This shows the max. utility line voltage in Volts.

Input Min. Voltage

This shows the min. utility line voltage in Volts.

Input Frequency

This shows the current input frequency in Hertz.

3.2.2.2. Rating Group

This shows the UPS rating information.

Rating Voltage

This shows the nominal voltage in Volts.

Rating Frequency

This shows the nominal frequency in Hertz.

Rating Current

This shows the nominal current in Amps.

Rating Battery Voltage

This shows the nominal battery voltage in Volts.

3.2.2.3. Output

Output Status

This field shows the status of the output source. Status included "Other", "None", "Normal", "Bypass", "Battery", "Booster" and "Reducer".

Output Voltage

This shows the current UPS output voltage in Volts.

Output Frequency

This shows the current UPS output current in Hz.

Output Load

This shows the current load on the UPS in terms of percentage.

Output Current

This shows the current output Current in Amps.

<u>Output Active Power</u> This shows the current output Power in Watts.

Output VA

This shows the current output Apparent Power in VA.

3.2.2.4. Battery

Battery Status

The status of the UPS batteries. Battery Status Included: "Battery OK", "Low battery" and "Battery failure".

Temperature

The current internal UPS temperature expressed in °C.

Battery Capacity Remaining

The remaining battery capacity expressed in percent of full capacity.

Time since on Battery Power

The elapsed time in seconds since the UPS has switched to battery power.

Battery Runtime Remaining

The rough remaining battery backup time expressed in seconds.

Battery Voltage

The current battery voltage expressed in Volts.

Current Battery Voltage Per Cell

The current battery voltage of each cell expressed in Volts.

Autonomy Time

The rough autonomy time expressed in hh:mm:ss format.

Battery Live (Year)

The current battery life expressed in Years.

Self-test Result

This shows the test result of the last battery self-test.

3.2.2.5. Event/Schedule

Error Code

Displays the last error code number.

Last Event

Displays the last recorded event.

Last Battery Test Time

Displays the latest date and time a battery test was executed in dd/mm/yyyy hh:mm format.

Battery Next Test Time

Displays the date and time scheduled for the next battery test in dd/mm/yyyy hh:mm format.

UPS Next Off Time

The date and time that UPS will be turn off according to Weekly or Special Day Schedule.

UPS Next On Time

The date and time that UPS will be turn on according to Weekly or Special Day Schedule.

3.2.3. EMD

Environmental Monitoring Device

miniGOLD 2

USHA			😬 Hi! usha	2 Logout	English 🗸	Time: 01/12/2020 16:10:54
	IP:172.31.1.82 UPS: I	ocation:				
 System Status 	System Status > Current Infor	mation				
Dashboard	EMD					
Current Information						
EMD	🔵 EMD					
UPS Management	Status	SHT15				
General Settings	EMD31 Temp.(*C)	22.6				
Network	Alarm-1 Name	52.1 Normal				
Frent Netification	Alarm-2 Name	Normal				
Event Notification						
	4					

SMART 3

	IP:172.31.1.109 UPS:	Loc	ation:					
System Status	System Status > Cu	rent Informati	on					
Dashboard		EMD						
Current Information								
EMD	• EMD-1				EMD-2			
PS Management	Status	Enabled	Humidity Name (%)	47.5	Status	Enabled	Humidity Name(%)	50.6
ieneral Settings	Address	1 Disabled	Alarm-1 Name	Disabled	Address	2 Disabled	Alarm-1 Name	Disabled
letwork	Location Name	Disableu	remperature Name(C/	24.0	Location Name	Disabled	remperature Name(C/	23.7
want Natification	Locatorritarie				Locatorritanic			
xternal Links								
kternal Links	44							
kternal Links	"							
tternal Links	•							
ternal Links	"							

3.2.3.1. EMD

miniGOLD 2

Status

This shows the EMD status is Enabled or Disabled.

EMDn Temp(°C)

This shows the current temperature measurement of the EMD expressed in °C.

Humidity Name(%)

This shows the current humidity measurement of the EMD expressed in percentage.

<u>Alarm -1 / 2 Name</u> This shows the current status (alarm or normal) detected from the sensor which attached to the EMD.

SMART 3

Status

This shows the EMD status is Enabled or Disabled.

Humidity Name(%)

This shows the humidity sensor name and current humidity measurement of the EMD-n.

Address

This shows the EMD RS485 Address.

Alarm-n Name

This shows the current status (alarm or normal) detected from the sensor which attached to the EMD.

Temperature Name(°C)

This shows the temperature sensor name and current temperature measurement of the EMD-n.

Location Name

This shows the location of EMD-n.

3.3. UPS Management

3.3.1. **UPS Settings**

	IP:192.169.100.5 UPS:Demo_UPS	Location:		_		
System Status	UPS Management > UPS Settings					
UPS Management	Identification			Parame	ters Setting	
UPS Settings					g	
Schedule and Shutdown	UPS Identification				Thresholds	
Alert & Logs	UPS Model	Demo_UPS			Over Temperature Set Point (°C)	60
General Settings	UPS Name	Ab			Temperature Hysteresis	0
Network	UPS Serial Number				Over Load Set Point (%)	80
French Natification	UPS Firmware Revision	XX3007BZ				
Event Notification	USHA Firmware Revision	v0.80				
External Links	UPS Type	On-Line				
	UPS Protocol	Auto De	tect 💌			
	UPS Baud Rate (bps)	Auto De	tect 💌 🛛 2	400 🔻		
	UPS Control				UPS Command Group)
	UPS Shutdown Delay (Sec)	180			Q5 Command	Disabled 💌
	UPS Sleep Time (Min)	1			At Command	Disabled 🔻
	UPS Control Action		None	-	BL Command	Disabled 🔻
	Battery Test Setting Time (Min)	0			TR Command	Disabled 🔻
	Battery Rated Capacity (%)	20				
	Battery Test Command		None	•		
	Last Test Start Time					
	Last Test Elapsed Time					
	Last Test Result	None				

3.3.1.1. UPS Identification

This page lets you get all the UPS information.

UPS Model

The UPS model name (e.g. 'Intelligent 8000E 900VA').

UPS Name

This is the name of the UPS configured by Administrator.

UPS Serial Number

The serial number of the UPS.

UPS Firmware Revision

The firmware revision of the UPS.

USHA Firmware Revision The firmware revision of USHA.

<u>UPS Typ</u>e

Type of UPS. This can be either On-line, Off-line, Line-Interactive, 3 Phase or Other.

UPS Protocol

This lets user to choice the UPS protocol by Auto detect or Manual setting. *Only for some models

UPS Baud Rate

This lets user to choice the UPS Baud Rate by Auto detect or Manual setting. *Only for some models

3.3.1.2. UPS Control

This page let you perform control such as stopping/starting the UPS and running a battery test.

UPS Shutdown Delay (Sec)

The delay in seconds the UPS remains on after being told to sleep. The UPS shutdown delay time will be count-down synchronize to the shutdown delay time set in the Shutdown Program in all connected clients. To avoid improper shutdown of the clients, the UPS shutdown delay time set in USHA should always be greater than the shutdown delay time set in the Shutdown Program.

UPS Sleep Time (min)

The time in minutes for the UPS to go to sleep when instructed. When in Sleep mode, the UPS will not provide output power regardless of the input line state. Once the specified time has elapsed, output power will be restored.

UPS Control Action

Turn Off UPS with Delay Setting "Turn off UPS with Delay" causes the UPS to turn off after a delay of UPS Shutdown Delay time. The output power can be restored by the Turn on UPS/Cancel UPS Shutdown option.

UPS Sleep

Setting "UPS Sleep" causes the UPS to go to sleep for the time specified by UPS Sleep Time after the delay time as configured in UPS Shutdown Delay. When in sleep mode, the UPS will not provide output power. Once the specified time has elapsed, UPS will provide output power.

Turn On UPS/Cancel UPS Shutdown

Setting "Turn On UPS/Cancel UPS Shutdown" causes the UPS to cancel any on-going shutdown process. If the UPS has already shutdown, then it cancels the sleep command and brings back the output power.

Switch to Bypass

Setting "Switch to Bypass" causes the UPS to transfer to the bypass mode immediately. The output voltage will directly power from utility.

Switch to Inverter

Setting "Switch to Inverter" causes the UPS to transfer to the line mode immediately.

Turn On/Off Beep

Setting "Turn On/Off Beep" allows the buzzer turn on or off.

Turn Off UPS (AC Fail)

Setting "Turn Off UPS (AC Fail)" causes the UPS turn off when the AC fail occur.

Battery Test Setting Time (min)

This shows the total time for the battery test when Timed Test has been selected in the Battery Test Command menu.

Battery Rated Capacity (%)

This shows the rated capacity for the battery test when Test Until Battery Rated Capacity has been selected in the Battery Test Command menu.

Battery Test Command

None - No action

Quick Battery Test -Perform battery test for a short time

Test Until Battery Low - Perform battery test until battery low.

Timed Test - Perform the battery test for the period set in the Battery Test Setting Time menu.

Test Until Battery Rated Capacity - Perform the battery test for the rated capacity set in the Battery Rated Capacity menu.

Cancel Test - Cancel the battery test.

Clear Test Information - Clear the last battery test information recorded by USHA.

Last Test Start Time

This shows the start time of the last battery test.

Last Test Elapsed Time

This shows the elapsed time of the last battery test.

Last Test Result

This shows the test result of the last battery test.

3.3.1.3. UPS Command Group

These commands shown below allow user to set the supported command for the UPS.

Q5 Command

This command is only available in the Basic communication protocol. Enable/Disable the Q5 command. If the Q5 command is enable, the following status will be shown. If the UPS does not support Q5 command, the related information will show N/A on the display.

Examples of Q5 command status:

[System Status] \rightarrow [Current Information] page

"Output": Output Frequency, Output Current, Output Active Power, Output VA

"Battery": Battery Voltage, Current Battery Voltage Per Cell

"Event/Schedule": Error Code

[UPS Management] \rightarrow [Alert & Logs] \rightarrow [History Log] page

"History Log ": Output Frequency, Output Current, Output Active Power, Output VA

At Command

This command is only available in the Basic communication protocol. Enable/Disable the At command. If the At command is enable, the following status will be shown. If the UPS does not support At command, the related information will show N/A on the display.

Examples of At command status:

[System Status] \rightarrow [Current Information] page

"Battery": Autonomy Time

BL Command

This command is only available in the Basic communication protocol. Enable/Disable the BL command. If the BL command is enable, the following status will be shown. If the UPS does not support BL command, the related information will show N/A on the display.

Examples of BL command status:

[System Status] \rightarrow [Current Information] page

"Battery": Battery Live

TR Command

This command is only available in the Basic communication protocol. Enable/Disable the TR command. If the TR command is enable, the following status will be shown. If the UPS does not support TR command, the related information will show N/A on the display.

Examples of TR command status:

[System Status] \rightarrow [Current Information] page "Battery": Self-test Result

Programmable Outlet Command

Enable/Disable the Programmable Outlet command. If the Programmable Outlet command is enabled, the following status will be shown. If UPS does not support Programmable Outlet command, the related information will not be displayed.

Examples of Programmable Outlet command status:

[UPS Management] \rightarrow [UPS Settings] \rightarrow [Programmable Outlet] page

"Programmable Outlet": Programmable Outlet, Program Outlet 1, Program Outlet 2

3.3.1.4. Thresholds

This lets you set the temperature and load threshold point for the UPS.

Over Temperature Set Point

Set the upper limit of UPS temperature. When UPS temperature exceed this limit , USHA will take action that is specified in the UPS Shutdown menu. (10~100)

Temperature Hysteresis

The temperature value may drift when it approaches the upper or lower limit as set by the user. Without hysteresis, when the temperature fluctuates around the set limit, it may trigger the generation of multiple alarm notifications. The hysteresis setting defines the number of degrees the measured value must change before the alarm clears. For example, if the temperature upper limit is set to 60 degrees and the hysteresis is set at 2 degrees, then the alarm will trigger at 60 degrees, but will not clear until the temperature drops below 58 degrees. The default hysteresis setting is 0 degrees Celsius.(0~20)

Over Load Set Point

Set the upper limit of UPS output load. When UPS output load exceed this limit, USHA will take action that is specified in the UPS Shutdown menu. (0~150)

3.3.1.5. Parameters Setting

This page lets you set the battery replace date.

ПСНУ			😬 Hi! usha 🛛 🗿 Logout 🛛 English 👻 Time: 03/06/20:	20 16:51:15
USHA				
	IP:192.168.	100.5 UPS:Demo_UPS Location:		
 System Status 	UPS Ma	nagement > UPS Settings		
UPS Management		Identification	Parameters Setting	
UPS Settings				
Schedule and Shutdown		Parameters Setting		
Alert & Logs		Index	Battery Replaced Date (dd/mm/yyyy)	
General Settings		1	01/01/1970	
Network		2	01/01/1970	
Event Notification		3	01/01/1970	
External Links		4	01/01/1970	
		5	01/01/1970	
		6	01/01/1970	
			Apply	

3.3.1.6. Programmable Outlet

This page lets you set the Programmable Outlet.

Line Mode

IP:19	92.168.100.6 UPS:AS+1K Location:			
System Status	PS Management > UPS Settings			
 UPS Management 	Identification	Parameters Setting		Programmable Outlet
UPS Settings				
Schedule and Shutdown	Programmable Outlet			
Alert & Logs	N	umber of programmable outlet group (2	
General Settings	Program Outlet 1 OFF	ON		
▶ Network		tout for	10	Sec
Event Notification	2 Turn off outlat after AC fail	for	20	Cac/Pattan(mode)
External Links			20	sec(battery mode)
	3. Turn on outlet after AC reco	overtor	30	Sec(AC mode)
4	 4.Turn off outlet after battery 	is energy is lower than	95	% capacity
	5.Turn off outlet when the loa	ad is higher than	3	% capacity
	Program Outlet 2 OFF	ON		
	1.Turn on outlet after UPS ou	tput for	5	Sec
	2.Turn off outlet after AC fail	for	10	Sec(Battery mode)
	3.Turn on outlet after AC reco	over for	28	Sec(AC mode)
	4.Turn off outlet after battery	is energy is lower than	85	% capacity
	5.Turn off outlet when the los	ad is higher than	4	% capacity

Standy Mode

USHA		🖰 Hi! usha	Logout English Time: 12/11/2020 18
0.2119	IP:192.168.100.6 UPS:123456789QWERTYUIC	DPA Location:	
ystem Status	UPS Management > UPS Settings		
PS Management	Identification	Parameters Setting	Programmable Outlet
PS Settings			
chedule and Shutdown	Programmable Outlet		
lert & Logs		Number of programmable outlet group	2
neral Settings	Program Outlet 1		
twork		IPS output for	Sec
ent Notification			Cos/Patton (mode)
ernal Links			Sec(battery mode)
	3.1um on outlet after A	6 crecover for	Sec(AC mode)
	✓ 4.Turn off outlet after b	attery is energy is lower than 96	5 % capacity
	5.Turn off outlet when t	the load is higher than 2	% capacity
	Program Outlet 2 OFF	ON	
	 1.Turn on outlet after U 	IPS output for 10) Sec
	 2.Turn off outlet after A 	C fail for 5	Sec(Battery mode)
	✓ 3.Turn on outlet after A	C recover for 6	Sec(AC mode)
	✓ 4.Turn off outlet after b	attery is energy is lower than 96	5 % capacity
	✓ 5.Turn off outlet when t	the load is higher than 2	% capacity
		Apply	

Number of programmable outlet group

This field shows the number of programable output socket groups, which defaults to 2 groups.

Programmable Outlet1

This field directly controls the opening and closing of outlet 1, which is set in line mode and does not require the click of an Apply button. Other related settings need to be set in standby mode, and when complete, click the Apply button to write the settings.

Programmable Outlet2

This field directly controls the opening and closing of outlet 2, which is set in line mode and does not require the click of an Apply button. Other related settings need to be set in standby mode, and when complete, click the Apply button to write the settings.

3.3.2. Schedule and Shutdown

3.3.2.1. Battery Test

This page let you set a schedule for Battery Auto Test.

ПСНУ					\rm e Hi	i! usha 🛛 🕤 Logou	t English 💙 Time: 03/06/2020 16
USIIA	_						
	IP:192.16	8.100.5 UPS:Demo_UPS	Location:				
System Status	UPS M	lanagement > Schedule and	l Shutdown				
UPS Management		Battery Test		U	PS On/Off S	chedule	Event Shutdown
UPS Settings		Advanced Battery Test		-			
Alort & Logs		Туре		Test Day		Test Time (hh:mm)	Test Actions
General Settings		Weekly Schedule 🔹		Disabled	•	00:00	None
Network					Apply		
Event Notification					тфру		
External Links							
	1						

Туре

This column provides you the type of schedule for the battery test. Available options are: Weekly Schedule, Two Weeks Schedule, Monthly Schedule, and Quarterly Schedule.

Test Day

The execution day of the battery test of UPS.

Test Time

The execution time of the battery test of UPS which is specified in 24-hour form.

Test Actions

Specifies whether the battery test shall be perform or not on the date and time set in advance. Available options are:

None - No action

 Quick Battery Test - Performs battery test for a short time

 Test Until Battery Low - Test until battery low

 Timed Test - Test for the time specify in the Test Time column

 Test Until Battery Rated Capacity

 - Test for the rated capacity specify in the Rated Capacity column

3.3.2.2. UPS On/Off Schedule

This page lets you modify the parameters of the shutdown / restart events associated with the days of the week or specific day. Please make sure the Weekly Schedule or Special Day option is enabled in the Event Shutdown menu.

	IP:19	2.168.100.5	UPS:Demo_UPS Loca	ation:			
System Status	U	PS Manager	ment > Schedule and Shut	down			
JPS Management			Battery Test	Le la constante de la constante	JPS On/Off Schedule	Ev	ent Shutdown
UPS Settings Schedule and Shutdown		O UPS	On/Off Schedule				
Alert & Logs		Index	Туре	Shutdown Day	Shutdown Time(hh:mm)	Restart Day	Restart Time(hh:mm)
eneral Settings		1	Weekly Schedule 🔻	Disabled 🔻	00:00	Disabled	00:00
letwork		2	Weekly Schedule 🔻	Disabled 🔻	00:00	Disabled	00:00
		3	Weekly Schedule 🔻	Disabled 🔻	00:00	Disabled	00:00
vent Notification		4	Weekly Schedule 🔻	Disabled 🔻	00:00	Disabled •	00:00
external Links		5	Weekly Schedule 🔻	Disabled 🔻	00:00	Disabled 💌	00:00
		6	Weekly Schedule 🔻	Disabled 🔻	00:00	Disabled 🔻	00:00
		7	Weekly Schedule 🔻	Disabled 🔻	00:00	Disabled 💌	00:00
		8	Weekly Schedule 🔻	Disabled 🔻	00:00	Disabled 🔻	00:00
	•	8	Weekly Schedule	Disabled	00:00	Disabled	00:00

Index

This column provides a reference number for the shutdown/restart event pair being configured.

Туре

This column provides you to choose these columns specify the day of the week when the UPS needs to be Shutdown or Restarted. They are usually configured in pairs.

Shutdown Day or Restart Day

These columns specify the day of the week when the UPS needs to be Shutdown or Restarted. They are usually configured in pairs.

Shutdown Time or Restart Time

The time in 24-hour format when the UPS should turn off (shutdown) output or turn on (restart) its output power.

3.3.2.3. Event Shutdown

This page lets you set related shutdown operation of the UPS can be performed.

System Status	LIDC Managements of L						
	UPS Management > Sch	nedule and Shutdo	wn				
JPS Management	Battery Test	UPS On/Off S	Schedule Ev	ent Shutdown			
UPS Settings							
Schedule and Shutdown	Event Shutdo	wn					
Alert & Logs	Shutdown Even	It	Active Period	Shutdown Actions	Warning Period(Sec)	Ist Warning(Sec)	Warning Interval(S
ieneral Settings	ACFalled		00:00 - 23:59	Warning	60	10	10
letwork	Battery Low		00:00 - 23:59	Warning 🔻	60	10	10
vent Notification	UPS Overload		00:00 - 23:59	Warning	60	10	10
vtornal Links	UPS Over Temper	ature	00:00 - 23:59	Warning •	60	10	10
Xterrial Links	Weekiy Schedule		00:00 - 23:59	Client Shutde	60	10	10
	Special Day	0 71 1 1	00:00 - 23:59	Client Shutdc	60	10	10
	EMD Temperature	Over Threshold	00:00 - 23:59	Disabled	60	10	10
· · · · · · · · · · · · · · · · · · ·	EMD Alarm-1		00:00 - 23:59	Disabled v	60	10	10
	EMD Alarm-2		00:00 - 23:59	Disabled 🔻	60	10	10

Shutdown Event

This column defines set of events to cause UPS Shutdown.

Active Period

This column specifies the active period for the event shutdown action.

Shutdown Actions

Enabling this column specifies that the row entries are valid and the UPS should take proper action if that event occurs / happens. Available actions are:

Disabled - action is disabled.

Warning - warning message will be broadcast to the connected clients.

Client Shutdown - warning message will be broadcast and shutdown command will be sent to the connected clients.

Client Shutdown & UPS Turn Off - warning message will be broadcast, shutdown command will be sent to the connected clients and UPS will be turned off.

Warning Period

This column specifies time delay in seconds. After the occurrence of any enabled event, warning messages will be send persistent within this period. Shutdown request will send to clients after this period expired.

1st Warning

This column specifies the 1st warning time delay in seconds. After the occurrence of any Enabled Event, 1st warning call will be given after this delay.

Warning Interval

This column specifies the repeated warnings time delay in seconds. After the 1st warning call, successive warning calls will be given after this delay time. This will continue until the completion of the total delay time (mentioned in 3rd column). Minim

Discontinue shutdown if event restored

Enable/Disable the discontinue shutdown if event restored. If enabled, it will stop shutdown action when the event restored.

Different Events

A/C Fail

Shutdown will occur when the AC input fails.

Battery Low

Shutdown will occur for the battery low condition.

UPS Overload

Shutdown occurs if the output of the UPS is overload. Please check the configuration in UPS Shutdown menu for UPS Overload.

UPS Over Temperature

Shutdown occurs if the internal temperature of the UPS is over the pre-set value. Please check the configuration in UPS Shutdown menu for UPS Over Temperature.

Weekly Schedule

This Shutdown occurs as per the timings given in the Weekly Schedule shutdown table.

Special Day

This Shutdown occurs as per the Day & Time mentioned in the Special Day shutdown table.

EMD Temperature over Threshold

Shutdown occurs when EMD temperature sensor detects over high temperature.

EMD Alarm-1

Shutdown occurs when alarm-1 sensor detects an active alarm.

EMD Alarm-2

Shutdown occurs when alarm-2 sensor detects an active alarm.

3.3.2.4. Unix/Linux Shutdown

This page provides the Unix/Linux operating system script shutdown settings.

USHA	🕒 Hi usha 🗘 logout English 🚽 Time 09/11/0202 18:
	P192.163.006 UP345+1K Location 192.163.006 UP345+1K Location
 System Status 	UPS Management > Schedule and Shutdown
 UPS Management 	Battery Test UPS On; Off Schedule Event Shutdown Unity Charac Shutdown
UPS Settings	
Schedule and Shutdown	Test index Paddress Paddettype Port Loginusemane (Sum) User passinoid (Smil) Superuser name (Sum) Superuser passinoid (Smil) Waiting time before executing (Sec) Script number Script content Test result
Alert & Logs	D 1 Nor O South Y Sou Nore
Network	D 2 Nore V 0 Sort V Sor Nore
Event Notification	D 3 Nore • 0 Soipt • Soipt • Soipt • Soipt •
External Links	D 4 Nove V 0 South V S
	Apply Uniting Studion Tet

<u>Test</u>

If this option is selected, USHA will send Unix/Linux instructions to the ticked computer after pressing the Unix/Linux Shutdown Test button.

Index

The index is the number of the entry in the table.

IP address

Enter the address of the computer you want to use.

Packet type

Managers can specify each type of envelope. This category is None, Telnet, SSH. None : indicates that there are no connections. **Telnet** : Connect as Telnet. SSH : Connect as SSH.

Port

In addition to the Telnet port (23) and SSH port (22), users can set different communication port numbers.

Port Login username (\$user1)

Set the port login user name.

User password (\$pw1)

Set the user password.

<u>Superuser name (\$user2)</u>

Set the Superuser name.

Superuser password (\$pw2)

Set the Superuser password.

Waiting time before executing (Sec)

Wait time before executing the script.

Script number

Select the script number.

Script content

Show stored script content by script number.

<u>Test result</u> This field displays the test results.

3.3.3. Alert & Logs

3.3.3.1. Alert Table

This table displays the currently active alerts. This menu will refresh automatically.

4 UPS Management UPS Settings Schedule and Shutdown Alert & Logs • General Settings • Network • Event Notification • External Links	 System Status 	IP:172.31.1.82 UPS: UPS Management > Alert	Location: & Logs	_	_	_	-
	 UPS Management UPS Settings Schedule and Shutdown Alert & Logs General Settings Network Event Notification External Links 	Alert Table D 1 2	USHA Event Log Time 30/11/2020 17:19:42 01/12/2020 13:50:52	UPS Event Log Alert Des Communic EMD Temp	History Log cription atlon to the UPS has been lo erature over high set point	Clear & Save Log Data	

 System Status 	UPS	Management > A	ert & Logs				
UPS Management		Alert Table	USHA Event Log	UPS Event Log	History Log	EMD History Log	Clear & Save Log Data
UPS Settings		Alert Table	-			1	
Schedule and Shutdown		ID	Time	Alert Descript	tion		
Alert & Logs		1	01/12/2020 16:31:54	Communication	to the UPS has been lost		
General Settings		2	01/12/2020 17:24:45	EMD-1 Temper	ature over high set warning po	pint	
Network							
 Event Notification 							
External Links							
	_						

ID Sequential number, it indicates the sequence of activation of alarms. This number will be reset after USHA reboot.

<u>Time</u>

UPS alert activation time on USHA. (Note: The date / time depends on the clock within USHA.)

Alert Description

Complete UPS alert description.

3.3.3.2. USHA Event Log / UPS Events Log

You can check events that occurred in USHA/UPS. This table lists all the events that have occurred since the table was cleared. The existing values are overwritten when the maximum number of entries (rows) has been reached. You can clear the log data in "Clear & Save Log Data" page. The maximum number of event logs is 1024.

atus Igement Igs and Shutdown Igs attings	IP:192.168.100.5 UPS:Demo_UPS Location: UPS Management > Alert & Logs Alert Table USHA Event Log From:	UPS Event Log	History Log Clear & Save Log Data
atus agement igs and Shutdown gs ettings	UPS Management > Alert & Logs Alert Table USHA Event Log From:	UPS Event Log	History Log Clear & Save Log Data
agement and Shutdown gs ettings	Alert Table USHA Event Log From:	UPS Event Log	History Log Clear & Save Log Data
igs and Shutdown gs ettings	USHA Event Log	to:	
and Shutdown gs ettings	USHA Event Log	to:	
gs ettings	From:	to:	
ettings	O USHA Event Log		Event Level: Information 👻 🔇
	OSHA Event Log		
	Time .	Frankland =	Event Description
ification	03/06/2020 16:47:30	Warning	Event Description
inks	03/06/2020 16:46:18	Warning	Incorrect Mail server name/IP address
	03/06/2020 14:49:53	Warning	Incorrect Mail server name/IP address
	03/06/2020 14:48:32	Warning	Incorrect Mail server name/IP address
•••	03/06/2020 14:05:50	Warning	Incorrect Mail server name/IP address
		1 2 3 4 5	166 > > sha () Logout English V Time: 03/06,
5HA	IP:192.168.100.5 UPS:Demo_UPS Location:	1 2 3 4 5 € Hilus	166 → > sha () Logout English ♥ Time: 03/06,
SHA tus	IP:192.168.100.5 UPS:Demo_UPS Location: UPS Management > Alert & Logs	1 2 3 4 5	166 → > sha () Logout English ♥ Time: 03/06,
HA US ement	IP:192.168.100.5 UPS:Demo_UPS Location: UPS Management > Alert & Logs Alert Table USHA Event Log	1 2 3 4 5 Hitus UPS Event Log	166 > > sha 🕄 Logout English 🗸 Time: 03/06, History Log Clear & Save Log Data
Tus gement is id Shutdown s ttings	IP:192.168.100.5 UPS:Demo_UPS Location: UPS Management > Alert & Logs Alert Table USHA Event Log From:	1 2 3 4 5 Hilus UPS Event Log to:	166 > > sha () Logout English v Time: 03/06, History Log Clear & Save Log Data Event Level: Information V
SHA itus gement js nd Shutdown s ttings	IP:192.168.100.5 UPS:Demo_UPS Location: UPS Management > Alert & Logs Alert Table USHA Event Log From:	1 2 3 4 5 Hil us UPS Event Log	166 > > sha () Logout English v Time: 03/06, History Log Clear & Save Log Data Event Level: Information v ()
HA us ement d Shutdown tings cation	IP:192.168.100.5 UPS:Demo_UPS Location: UPS Management > Alert & Logs Alert Table USHA Event Log From:	1 2 3 4 5 Hil us UPS Event Log to:	166 → → sha
HA Is ment Shutdown ngs ation	IP:192.168.100.5 UPS:Demo_UPS Location: UPS Management > Alert & Logs Alert Table USHA Event Log From: UPS Event Log Time ▼ 03/06/2020 1647.29	1 2 3 4 5 Image: Second state	166 > > sha Icogout English Time: 03/06, History Log Clear & Save Log Data Event Level: Information Icogout Event Level: Information Icogout Event Level: Information Icogout Event Description The UPS load return from overload Icogout
HA IS IMENT Shutdown Shutdown ings sation s	IP:192.168.100.5 UPS:Demo_UPS Location: UPS Management > Alert & Logs Alert Table USHA Event Log From: UPS Event Log Time ▼ 03/06/2020 16:47.29 03/06/2020 16:46.18	1 2 3 4 5 Image: Second state	166 > > sha Icogout English v Time: 03/06, History Log Clear & Save Log Data Event Level: Event Level: Information v Q Event Level: Information verticad The UPS load return from overload The UPS to verticad The UPS to verticad The UPS to verticad
HA IS IS INUTOWN INDES Shutdown INDE	IP:192.168.100.5 UPS:Demo_UPS Location: UPS Management > Alert & Logs Alert Table USHA Event Log From: UPS Event Log Time ▼ 03/06/2020 1647.29 03/06/2020 1647.29 03/06/2020 1647.33	1 2 3 4 5 Image: Second s	166 > > sha Icogout English Time: 03/06, History Log Clear & Save Log Data Event Level: Information Image: Clear & Save Log Data Event Level: Information Image: Clear & Save Log Data Event Description The UPS load return from overload The UPS load return from overload The UPS load return from overload The UPS load return from overload The UPS load return from overload
HA s ment Shutdown ngs ation s	P:192.168.100.5 UPS:Demo_UPS Location: UPS Management > Alert & Logs Alert Table USHA Event Log From: UPS Event Log Time ▼ 03/06/2020 1647.29 03/06/2020 1647.29 03/06/2020 1647.33 03/06/2020 1448.33 03/06/2020 1448.33	1 2 3 4 5 Image: Second S	166 > > sha Icogout English Time: 03/06, History Log Clear & Save Log Data Clear & Save Log Data Event Level: Information Image: Clear & Save Log Data Event Level: Information Image: Clear & Save Log Data Event Level: Information Image: Clear & Save Log Data Event Level: Information Image: Clear & Save Log Data Event Level: Information Image: Clear & Save Log Data Event Level: Information Image: Clear & Save Log Data Event Level: Information Image: Clear & Save Log Data Event Level: Information Image: Clear & Save Log Data Event Level: Information Image: Clear & Save Log Data Event Level: Information Image: Clear & Save Log Data Event Level: Information Image: Clear & Save Log Data Event Level: Information Image: Clear & Save Log Data Event Level: Image: Clear & Save Log Data Image: Clear & Save Log Data Event Level: Image: Clear & Save Log Data Image: Clear & Save Log Data Event Level: <

From / To

You can display logs by specifying a period.

Click over the From (To) field, and when the calendar appears, click the target date. You can also enter the date (dd/mm/yyyy) in text.

Event Level

Logs can be displayed after being narrowed down by event level. Information - Displays all the logs (Information/Warning/Critical). Warning - Displays the logs which level are Warning or higher (Warning/Critical). Critical - Displays only the logs which level are Critical.

O"Refresh" button

After you are done specifying the period in the From and To fields, click the "Refresh" button ⁹ on the right. The events that meet the conditions will be displayed.

Time (dd/mm/yyyy hh:mm:ss)

Sorting by the date and time (in dd/mm/yyyy format) by the event.

Event Level

Sorting by event level.

Event Description

The description of the event which occurred at the recorded time.

3.3.3.3. History Log

This page gives a snap-shot of all the fundamental UPS parameters.

The recording interval can be changed by the Administrator by modifying the variable "Log Interval" in "System Configuration" page.

The existing values are overwritten when the maximum number of entries (rows) has been reached. You can clear the log data in "Clear & Save Log Data" menu. The maximum number of logs is 2048.

List button

This button is used to display data logs in list form.

To switch the data display in graphic form, click "Graphic button".

ΙΙςην				Hi! usha	😔 Logout 🛛 🗉	nglish 🖌 Time: 03/0	06/2020 16:55:
UUIIA							
	IP:192.168.100.5 UPS:De	mo_UPS Location:					
System Status	UPS Management > Ale	rt & Logs					
UPS Management	Alert Table	USHA Event Log	UPS Event Log	History Log	Clear & Sa	ave Log Data	
UPS Settings							
Schedule and Shutdown							
Alert & Logs		Fror	n: to:				
General Settings							
Network	History Log						
Event Notification	Time 🔻	Input Voltage (Volt) O	utput Voltage (Volt) Inpu	t Frequency (Hertz)	Output Load (%)	Battery Capacity (%)	UPS Temper
External Links							
	03/06/2020 16:55:00	220.1	230.1	60.0	10.0	100.0	30.:
	03/06/2020 16:54:00	220.1	230.1	60.0	10.0	100.0	30.:
	€ 03/06/2020 16:53:00	220.1	230.1	60.0	10.0	100.0	30.:
	03/06/2020 16:52:00	220.1	230.1	60.0	10.0	100.0	30.1
	03/06/2020 16:51:00	220.1	230.1	60.0	10.0	100.0	30.:
			1 2 2 4	E 40E			
			1 2 3 4	5 405 > »			



This button is used to display data logs in graphic form. To switch the data display in graphic form, click "List button".

	.192.168.100.5 UPS:Den	no_UPS Location:				
ystem Status	UPS Management > Aler	t & Logs				
IPS Management	Alert Table	USHA Event Log	UPS Event Log	History Log	Clear & Save Log Data	
UPS Settings	History Log C	hart				
Schedule and Shutdown						
Alert & Logs	a ch		manda o Chana	ta		
eneral Settings	 Sho 	Latest 30 minutes	records O snow		records	
elwork						
vent Notification		🗹 Input In	iformation 🛛 Output Ir	nformation 🛛 UPS Info	ormation	
xternal Links						
	200.00	Input Voltage (Volt)		70.00	Input Frequency (Hertz)	
••	300.00			/0.00		
	240.00			64.00 -		
	180.00			58.00		
				52.00		
	120.00					
	120.00					
	60.00			46.00		
	60.00			46.00		

From / To

You can display logs by specifying a period.

Click over the From (To) field, and when the calendar appears, click the target date. You can also enter the date (dd/mm/yyyy) in text.

After you are done specifying the period in the From and To fields, click the "Refresh" button 🧐 on the right.

<u>Time</u>

This gives the date and time in a 24-hour format when the values were recorded.

Input Voltage

This shows the input voltage in Volts at the time of recording.

Output Voltage

This shows the output voltage in Volts at the time of recording.

Input Frequency

This shows the input frequency in Hertz at the time of recording.

Output Load

This show the load on the UPS in terms of percentage at the time of recording.

Battery Capacity

The remaining battery capacity expressed in percent of full capacity.

UPS Temperature

This shows the temperature of the UPS battery in °C at the time of recording.

Output Frequency

This shows the output frequency in Hertz at the time of recording.

Output Current

This shows the output current in Amps at the time of recording.

Output Power

This shows the output power in Watts at the time of recording.

<u>Output VA</u> This shows the output apparent power in VA at the time of recording.

<u>EMD Temperature</u> This shows the current temperature measurement of the EMD.

<u>EMD Humidity</u> This shows the current humidity measurement of the EMD.

3.3.3.4. EMD History Log

List button

This button is used to display data logs in list form. To switch the data display in graphic form, click "Graphic button".

 > System Status UPS Management UPS Settings Schedule and Shutdown Alert & Logs > General Settings > Network > Event Notification 	Nert & Logs USHA Event Log From	UPS Event L	og History Lo	EMD Hist	ory Log Clear & S	ave Log Dat
UPS Management UPS Settings Schedule and Shutdown Alert & Logs General Settings Network Event Notification	USHA Event Log Fror	UPS Event L	og History Lo	EMD Hist	ory Log Clear & S	ave Log Dat
UPS Settings Schedule and Shutdown Alert & Logs General Settings Network Event Notification	Fror	n:	to:	3		
Schedule and Shutdown Alet & Logs General Settings Network Event Notification	Fror	n:	to:	3		
Alert & Logs General Settings Network Event Notification	From	n:	to:	3		
General Settings Network Event Notification	ry Log					
Network Event Notification EMD Histor	ry Log					
Event Notification Time 🔻						
	E1T(°C)	E1H(%)	E2T(°C)	E2H(%)	E3T(°C)	E3H
External Links						
01/12/2020 17:26:00	24.8	47.4	23.6	50.9		
01/12/2020 17:2300	24.8	47.5	23.7	50.8		
01/12/2020 17:23:00	24.8	47.5	23.7	50.9		
01/12/2020 17:22:00	24.8	47.4	23.7	50.9		



This button is used to display data logs in graphic form. To switch the data display in graphic form, click "List button".

USHA	😬 Hi! usha 🕥 Logout English 🗸 Time: 08/01/2021 17:07
70120111197	IP:172.31.1.31 UPS: Location:
System Status	UPS Management > Alert & Logs
UPS Management	Alert Table USHA Event Log UPS Event Log History Log EMD History Log Clear & Save Log Dat
UPS Settings Schedule and Shutdown	EMD History Log
Alert & Logs General Settings	Show Latest 1 day records Show to records
Event Notification	EMD-1 Temperature EMD-1 Humidity DEMD-2 Temperature DEMD-2 Humidity
external Links	EMD-3 remperature EMD-3 Humidity EMD-4 Temperature EMD-4 Humidity EMD-5 Temperature EMD-5 Humidity EMD-6 Temperature EMD-6 Humidity EMD-7 Temperature EMD-7 Humidity EMD-8 Temperature EMD-8 Humidity
	Image: Second
	60.00
	0.00 07/01/2021 07/01/2021 08/01/2021 08/01/2021 07/01/2021 08/01/2021 08/01/2021 17:07:00 23:06:30 05:06:00 11:05:30 17:05:00 23:06:30 05:06:00 11:05:30 17:05:00

From / To

You can display logs by specifying a period. Click over the From (To) field, and when the calendar appears, click the target date.

You can also enter the date (dd/mm/yyyy) in text. After you are done specifying the period in the From and To fields, click the "Search" button **Q** on the right.

Time

This gives the date and time in a 24-hour format when the values were recorded.

<u>E(n)T(°</u>C)

This shows the current temperature measurement of the EMD-n.

<u>E(n)H(%)</u>

This shows the current humidity measurement of the EMD-n.

3.3.3.5. Clear & Save Log Data

This page lets you save or clear the log files.

miniGOLD 2



SMART 3

USHA				0	Hi! usha 🕻	Logout English	Time: 01/12/2020 17:28:17
	IP:1	72.31.1.109 UPS:	Location:				
 System Status 	L. L	JPS Management > Ale	rt & Logs				
UPS Management		Alert Table	USHA Event Log	UPS Event Log	History Log	EMD History Log	Clear & Save Log Data
UPS Settings							_
Schedule and Shutdown		Save Log					
Alert & Logs			USHA Events Lo	a UPS Events Loa	History Log	EMD History Log	
 General Settings 							
 Network 				M		M	
 Event Notification 							
 External Links 		🜔 Clear Log Dat	а				
	•		🗌 USHA Events L	og 📄 UPS Events Log	🗆 History Log	EMD History Log	
				Cle	ar		

Save Log

Click the download button displayed before the desired item. You can save the various USHA log data to a file with the extension .csv that can be opened and read in MS Excel.

Clear Log Data

Administrator can clear the specific log data by putting a check mark beside it and click the Clear button.

3.4. General Settings

3.4.1. Authentication Configuration

	IP:192.168.100.5 UF	S:Demo_UPS Location:			
System Status	General Settings >	Authentication Configuration			
UPS Management	Acc	count Settings	Admin Password		
General Settings					
System Configuration	Multi-Us	er lable			
Authentication Configuration	Index	User Name		Password	Access Type
Web Settings	2				Disabled •
Firmware Upgrade	2				Disabled •
EMD Configuration	4				Disabled •
Multi-Language Setup	5				Disabled •
Network	6				Disabled •
Event Notification	7				Disabled T
External Links	8				Disabled
		Calliana			
		Settings			
	UDP Port			1812	
	Primary Server				
	Secondary Server				
	Share Secret of Pr	imary Server			
	Share Secret of Se	condary Server			
I					

3.4.1.1. Multi-User Table

You can apply access control to the USHA for each login user.

Index

The index number of the entry in the table.

User Name

The user name with the access type set by Administrator.

Password

The password of the user with the access type set by Administrator.

Access Type

Available options are: Disabled, Read Only, and Read / Write.

3.4.1.2. RADIUS Settings

This page lets you set RADIUS authentication.

UDP Port

Enter the UDP Port No. Default value: 1812

Primary Server

Enter the IP address of the RADIUS server.

Secondary Server

Enter the IP address of the RADIUS server.

Share Secret of Primary Server

Enter the share secret string of the primary server.

Share Secret of Secondary Server

Enter the share secret string of the secondary server.

Packet Timeout Interval

Set the packet timeout time. Default value: 1 second

Packet Retry Times

Set the number of retries. Default value is 3 times

3.4.1.3. Administrator Settings

This page lets you change the administrator name and administrator password.

		🖰 Hi! usha	🔁 Logout	English 🖌 Ti	me: 03/06/2020 17:05:07
U UIA					
	IP:192.168.100.5 UPS:Demo_UPS Location:				
System Status	General Settings > Authentication Configuration				
UPS Management	Account Settings	Admin Password			
 General Settings 					_
System Configuration	Administrator Settings				
Authentication Configuration	Administrator Name		J		
Web Settings	Administrator Password				
Firmware Upgrade	Retype New Administrator Password				
EMD Configuration	regie new raministrator rassition				
Multi-Language Setup		Apply			
Network					
 Event Notification 	44				
External Links					

Administrator Name Displays the current "administrator name".

Administrator Password

Enter the current "administrator password".

New Administrator Password

Enter a new "administrator password".

Retype New Administrator Password

Retype a new "administrator password".

3.4.2. System Configuration

USHA	😁 Hi! usha 🛛 🗿 Logout 🛛 English 👻 Time: 03/06/2020 16:
8800	IP:192.168.100.5 UPS:Demo_UPS Location:
 System Status UPS Management 	General Settings > System Configuration Preferences Upload and Download
General Settings System Configuration	System Information
Authentication Configuration Web Settings	System Location
Firmware Upgrade EMD Configuration	Date and Time Current Date 03/06/2020
Multi-Language Setup Network	Current Time 16:57/22 Time Zone [GMT 00:00] Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London 🔹
 Event Notification External Links 	Synchronize with computer time Synchronize with NTP server Server IP:
	Sync Interval: 1 hour Daylight Saving Time Disabled O Auto O Set manually
	Reset To Default Reboot Apply

3.4.2.1. System Information

System Name

This shows the current humidity measurement of the EMD.

System Location

This column lets you to set the location of USHA.

Temperature Unit

User can choose temperature to show the unit as Fahrenheit or Celsius in this settlement, the default value is Celsius.

History Log Interval

This value is the time in seconds to poll Input voltage, Output Voltage, Output Load, Battery Capacity, Input Frequency and UPS Temperature and save in the history log. Minimum value is 1 seconds.

3.4.2.2. Date and Time

This page provides the appropriate options below to enable the USHA date/time to be changed.

Current Date/Time

Display the current Date and Time of the USHA. This can be changed to synchronize with a computer, an enquiry from a time server (NTP) or manually.

Time Zone

Select the time zone of the area where the USHA is installed.

Synchronize with computer time

Select this option and click 'Set Value' to synchronize with the time from the computer clock.

Synchronize with NTP server

You must configure the NTP server IP and select the correct time zone to activate this option. To set the interval in the range 1 hour, 1 day, 1 week, or 1 month from the initial synchronization. After being configured to synchronize with NTP, the USHA will synchronize its time with the server periodically. If Daylight Saving Time was enabled, the time will be one hour earlier than NTP server time.

Set Manually

User can set the date and time with the following format: dd-mm-yyyy and hh:mm:ss.

3.4.2.3. Upload and Download

This page allows user to download or upload the setting file and CA Certificate for the USHA.

ПСНУ			😬 Hi! usha 🛛 👌 Logout	English V Time: 23/07/2020 18:23:08
USHA				
IP:	192.169.100.5 UPS: Loc	ation:		Communication to the UPS has been lost
► System Status	General Settings > System Configu	iration		
UPS Management	Preferences	Up	load and Download	
General Settings				
System Configuration	Upload and Download			
Authentication Configuration Web Settings	Download Root Certificate	Download Configurations	Upload Configurations	Upload CA file
Firmware Upgrade			Choose File No file chosen	Choose File No file chosen
EMD Configuration			-	
Multi-Language Setup				
▶ Network				
► Event Notification				
► External Links				

Upload Configurations

Upload configurations file to USHA.

Upload CA file

Upload CA file to USHA.

Download Configurations Download configurations file from USHA.

Download Root Certificate

Download Root certificate from USHA

3.4.3. Web Settings

USHA					😬 Hi! usha	Logout	English 🖌 Tin	ne: 03/06/2020 17:05
0.01119	IP:1	192.168.100.5 UPS:Demo_	UPS Location:	-	_	-	_	-
System Status		General Settings > Web Sett	ings					
UPS Management		Web Setti	ngs					
General Settings		Web Settings		Ext	ernal Links Setup	-	_	
System Configuration		Web Refresh Time	15	Index	Screen Text		Link Address	Status
Authentication Configuration		Logs per page	5	1				Disable 💌
Web Settings		Web Timeout Interval (Sec)		2				Disable 💌
Firmware Upgrade			300	3				Disable 🔻
EIVID Configuration				4				Disable 🔻
External Links	•							

3.4.3.1. Web Settings

This page lets you configure the settings related to the Web monitor refresh interval and timeout when you log in.

Web Refresh Time

Set the Web monitor refresh interval.

Logs per page

Set the number of log lines displayed in one page.

Web Timeout Interval (Sec)

This field specifies the time interval in seconds, to logout the user if the user has no action on the web page.

3.4.3.2. External Links Setup

This page describes the setting of External Links. Up to four links can be setup by this page, each link can configure to an external web page that user can easily connect to related web pages. Such as another UPS with USHA Card, or Technical Support homepage.

Screen Text

This is the description of link name which will display on the menu tree for user's reference.

Link Address

This field defines the real name of web page to be connected, in URL format.

<u>Status</u>

This field controls the visibility of this link on menu tree. Setting "Disable" will make this link invisible from menu tree.

3.4.4. Firmware Upgrade

ПСНУ		😬 Hi! usha	🕘 Logout	English V Time: 24/07/2020 09:53:18
USHA				
	IP:192.169.100.5 UPS:Demo_UPS Location:			
 System Status 	General Settings > Firmware Upgrade			
UPS Management	Firmware Upgrade			
General Settings				
System Configuration	USHA Upgrade			
Authentication Configuration		Upload file		
Web Settings		Choose File No file chosen		
Firmware Upgrade				
EMD Configuration				
Multi-Language Setup				
Network				
Event Notification	44			
External Links	.			

3.4.4.1. Firmware Upgrade

This page lets you update the firmware of USHA. Select the firmware with the "Choose File " button and click the "Upload " button.

Upload Status

This field shows the status of the upload process.

3.4.5. EMD Configuration

miniGOLD 2

	P:172.31.1.82 UPS: Location:		
System Status	General Settings > EMD Configuration		
UPS Management	EMD		
General Settings			
System Configuration	Information		
Authentication Configuration	EMD Status	Enabled 👻	
Web Settings	Alarm-1	AJarm-1 Name	Normal Open 💌
Firemana Lia ana da	Alarm-2	[Alarm-2 Name	Normal Open 🔻
Filmware Opgrade	Courses Name Tommersteine	EU021 Terre	
EMD Configuration	Sensor Name remperature	EMDS1 Temp.	
Multi-Language Setup	Set Point (Llow)	1 0	
Network	Calibration Offset	+0.5	
Event Notification			
External Links	Sensor NameHumidity (%)	Humidity Name	
	Set Point (Low)	30.0	
	Set Point (High)	80,0	
	Calibration Offset	+1.0 -	

	IP:172.31.1.109 UPS: Location:			
System Status	General Settings > EMD Configuration			
 UPS Management 	RS485 EMD EMD-1 EMD-2			
 General Settings 				
System Configuration	EMD Firmware Update			
Authentication Configuration		Lielead file		
Web Settings				
Firmware Upgrade		道洋傳来 没方地洋信来		
EMD Configuration				
 Network 				
Event Notification				
Evternal Links	• RS485 EMD			
P External Enixs	Auto Address Status	Idle		
	Auto Addressing	Excute		
			Locout Eastick of	Times 01 (12 /2)
USHA		\rm Hil usha 🔇) Logout English v	Time: 01/12/24
USHA	(5172311400_1055	🕑 Hi! usha 🕻) Logout (English)	Time: 01/12/2
USHA	IP:172.31.1.109 UPS: Location: General Settings > EMD Configuration	🕑 Hit usha 🕻	Dogout English v	Time: 01/12/2
USHA	IP:172.31.1.109 UPS: Location: General Settings > EMD Configuration	🕑 Hit usha 🕻	Dogout English v	Time: 01/12/2
USHA • System Status • UPS Management General Sottings	IP:172.31.1.109 UPS: Location: General Settings > EMD Configuration R5485 EMD EMD-1 EMD-2	🕑 Hit usha 🕻	Dogout English v	Time: 01/12/2
USHA • System Status • UPS Management • General Settings Sector Configuration	IP:172:31.1.109 UPS: Location: General Settings > EMD Configuration R5485 EMD EMD-1 EMD-2	Hil usha	Degout English v	Time: 01/12/2
USHA System Status UPS Management General Settings System Configuration Authoritign Configuration	IP:172.31.1.109 UPS: Location: General Settings > EMD Configuration R5485 EMD EMD-1 EMD-2 Information EMD Address 1	Hit usha	Degout English √	Time: 01/12/2
USHA System Status UPS Management General Settings System Configuration Authentication Configuration Much Satinger	IP:172.31.1.109 UPS: Location: General Settings > EMD Configuration RS485 EMD EMD-1 EMD-2 Information EMD Address 1 Application FW Version 01.00.0005	EMD-1 It Close Location Name	Degout English ✓ ·	Time: 01/12/2 Temperatur (Temperatur
USHA System Status UPS Management General Settings System Configuration Authentication Configuration Web Settings	IP:172.31.1109 UPS: Location: General Settings > EMD Configuration RS485 EMD EMD-1 EMD-2 Information EMD Address 1 Application PW Version 01.00.0005	Hi! usha Hi! usha Cose Enabled Location Name Alam-1 Alarm-1 Name Normal Open	Sensor Sensor Ame Calibration Offset	Time: 01/12/2 Temperatur (Temperatur (00
USHA • System Status • UPS Management • UPS Management • General Settings System Configuration Authentication Configuration Web Settings Firmware Upgrade	IP:172.31.1.109 UPS: Location: General Settings > EMD Configuration RS485 EMD EMD-1 EMD-2 Image: Configuration EMD-1 EMD-2 Image: Configuration EMD Address 1 Application FWV Version 01.00.0005	Hi! usha Hi! usha EMD-1 LT Close Enabled Location Name Alarm-1 (Alarm-1 Name Normal Open Alarm-2 (Alarm-2 Name Normal Open	Sensor Sensor Name ♥ Calibration Offset ♥ Critical Set Point (High)	Time: 01/12/2 Temperatur Temperatur 00
USHA • System Status • UPS Management • UPS Management • General Settings System Configuration Authentication Configuration Web Settings Firmware Upgrade EMD Configuration	IP:172.31.1.109 UPS: Location: General Settings > EMD Configuration RMD-2 R5485 EMD EMD-1 EMD-2 Image: Constraint of the set of the	Hit usha Hit usha Hit usha Li Close Enabled Location Name Alarm-1 Marm-1 Name Normal Open	Sensor Sensor Aame Calibration Offset Calibration Offset Calibration Offset Calibration Offset Warn Set Point (High)	Time: 01/12/2 Temperatur Temperatur 00 60. 20 20.
USHA System Status UPS Management General Settings System Configuration Authentication Configuration Web Settings Firmware Upgrade EMD Configuration Multi-Language Setup	IP:172.31.1.109 UPS: Location: General Settings > EMD Configuration RS485 EMD EMD-1 EMD-2 Image: Setting in the image in the im	EMD-1 IT Close Enabled Location Name Alarm-1 Alarm-1 Name Normal Open Alarm-2 Alarm-2 Name Normal Open	 ▶ Logout English ▼ > Sensor Sensor Name Calibration Offset Calibration Offset Calibration Offset Warn Set Point (High) Warn Set Point (Low) 	Time: 01/12/2 Temperatur Temperatur 0 0 6 60.0 2 20.0 2 10.0
USHA System Status UPS Management General Settings System Configuration Authentication Configuration Web Settings Firmware Upgrade EMD Configuration Multi-Language Setup Network	IP:172.31.1.109 UPS: Location: General Settings > EMD Configuration EMD-2 RS485 EMD EMD-1 EMD-2 Image:	EMD-1 IT Close Enabled Location Name Alarm-1 Name Normal Open Alarm-2 Name Normal Open	Logout English Sensor Sensor Name Calibration Offset Critical Set Point (High) Warn Set Point (Low) Critical Set Point (Low)	Time: 01/12/2 Temperatur Temperatur @ 0.0 @ 0.0 @ 200.0 @ 100.0 @ 5.0
USHA System Status UPS Management UPS Management General Settings System Configuration Authentication Configuration Web Settings Firmware Upgrade EMD Configuration Multi-Language Setup Network Event Notification	IP:172.31.1.109 UPS: Location: General Settings > EMD Configuration RS485 EMD EMD-1 EMD-2 Image: Configuration in the image of the	Hil usha Hil usha EMD-1 LT Close Enabled Location Name Alarm-1 (Alarm-1 Name Normal Open Alarm-2 Alarm-2 Name Normal Open	Logout English Sensor Sensor Name Calibration Offset Critical Set Point (High) Warn Set Point (Low) Critical Set Point (Low) Critical Set Point (Low)	Time: 01/12/2 Temperatur Temperatur 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
USHA System Status UPS Management UPS Management General Settings System Configuration Authentication Configuration Web Settings Firmware Upgrade EMD Configuration Multi-Language Setup Network Event Notification External Links	IP:172.31.1.109 UPS: Location: General Settings > EMD Configuration EMD-1 EMD-2 Image: Information EMD Address 1 Application PW Version 01.00.0005	Hil usha	Logout English Sensor Sensor Name Calibration Offset Critical Set Point (High) Warn Set Point (High) Warn Set Point (Low) Critical Set Point (Low) Sensor Sens	Time: 01/12/2 Temperatur Temperatur 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
USHA System Status UPS Management General Settings System Configuration Authentication Configuration Web Settings Firmware Upgrade EMD Configuration Multi-Language Setup Network Event Notification External Links	IP:172.31.1.109 UPS: Location: General Settings > EMD Configuration EMD-1 EMD-2 Information EMD Address 1 Application FWV Version 01.00.0005 1	Hit usha Hit usha Cose Enabled Location Name Alarm-1 Alarm-1 Name Normal Open Alarm-2 Name Normal Open	 ▶ Logout English ▼ ▶ Sensor ▶ Sensor Name ■ Calibration Offset ■ Critical Set Point (High) ♥ Warn Set Point (Low) ■ Critical Set Point (Low) ■ Sensor ■ Sensor Name ■ Calibration Offset 	Time: 01/12/2 Temperatur Temperatur 0.0 Concentration 1000 Humidity (A Humidity (A
USSHAA System Status UPS Management General Settings System Configuration Authentication Configuration Web Settings Firmware Upgrade EMD Configuration Multi-Language Setup Network Event Notification External Links	IP:172:31.1.109 UPS: Location: General Settings > EMD Configuration EMD-2 EMD-2 Image: State of the state	Hit usha Hit usha EMD-1 Lt Close Location Name Alarm-1 (Alarm-1 Name) Normal Open Alarm-2 (Alarm-2 Name) Normal Open	 Sensor Sensor Name Calibration Offset Critical Set Point (High) Warn Set Point (Low) Critical Set Point (Low) 	Time: 01/12/2 Temperatur Temperatur 0.0 Construction Construction Temperatur 0.0 Construction Co
USSHAA System Status UPS Management General Settings System Configuration Authentication Configuration Web Settings Firmware Upgrade EMD Configuration Multi-Language Setup Network Event Notification External Links	IP:17231.1109 UPS: Location: General Settings > EMD Configuration R5485 EMD EMD-1 EMD-2	Hil usha Hil usha EMD-1 It Close Enabled Location Name Alarm-1 Alarm-1 Name Normal Open Alarm-2 Alarm-2 Name Normal Open	 Sensor Sensor Name Calibration Offset Critical Set Point (High) Warn Set Point (Low) Critical Set Point (Low) Sensor Name Calibration Offset Critical Set Point (Low) Critical Set Point (Low) Critical Set Point (Low) Sensor Name Calibration Offset Critical Set Point (High) Warn Set Point (High) 	Time: 01/12/2 Temperatur Temperatur 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
USSHA System Status UPS Management UPS Management General Settings System Configuration Authentication Configuration Web Settings Firmware Upgrade EMD Configuration Multi-Language Setup Network Event Notification External Links	IP:172.31.1.109 UPS: Location: General Settings > EMD Configuration R5485 EMD EMD-1 EMD-2	Hil usha Hil usha EMD-1 IT Close Enabled Location Name Alarm-1 Alarm-1 Name Normal Open Alarm-2 Alarm-2 Name Normal Open	 Sensor Sensor Name Calibration Offset Critical Set Point (High) Warn Set Point (Low) Sensor Name Calibration Offset Critical Set Point (Low) 	Time: 01/12/2 Temperatur 00 600 200 500 Humidity (A Humidity 00 900 800 800 3000
USHA System Status UPS Management UPS Management General Settings System Configuration Authentication Configuration Web Settings Firmware Upgrade Eirmware Upgrade E	IP:172.31.1109 UPS: Location: General Settings > EMD Configuration RS485 EMD EMD-1 EMD-2	Hi! usha Hi! usha EMD-1 IT Cose Enabled Location Name Aarm-1 Alarm-1 Name Normal Open Alarm-2 Alarm-2 Name Normal Open	 Sensor Sensor Name Calibration Offset Critical Set Point (High) Warn Set Point (Low) Critical Set Point (Low) Sensor Sensor Sensor Aame Calibration Offset Critical Set Point (Low) 	Time: 01/12/; Temperatur Temperatur Temperatur 00 0 0 00 0 00 0 00 0 00 0 00 0 00 0
USSHAA System Status UPS Management General Settings System Configuration Authentication Configuration Web Settings Firmware Upgrade EMD Configuration Multi-Language Setup Network Event Notification External Links	IP:172.31.1.109 UPS: Location: General Settings > EMD Configuration R5485 EMD EMD-1 EMD-2	Hil usha Hil usha EMD-1 Lt Close Enabled Location Name Alarm-1 Alarm-1 Name Normal Open Alarm-2 Alarm-2 Name Normal Open	 Sensor Sensor Name Calibration Offset Critical Set Point (High) Warn Set Point (Low) Critical Set Point (Low) Critical Set Point (High) Warn Set Point (High) Warn Set Point (Low) Critical Set Point (High) Warn Set Point (Low) Critical Set Point (Low) Critical Set Point (Low) Critical Set Point (Low) 	Time: 01/12/2 Temperatur Temperatur 00 0 601 00 0 500 Humidity (7 Humidity 00 00 00 00 00 00 00 00 00 00 00 00 00

3.4.5.1. EMD

This page allows user to configure all necessary parameters of an EMD.

EMD Status

The EMD can be configured as 'Disabled' or 'Auto'. The setup should be configured as 'Disabled' if an EMD is not attached to the port. The EMD type will be auto detected by the USHA if configured as 'Auto' and if the EMD is plugged into the port.

Alarm Type

If an alarm sensor (water leak, security, etc) is connected to the USHA, the user can configure the alarm as 'Disabled', 'Normal Open', or 'Normal Close'. A 'Disabled' setting will mean the alarm is inactive.

'Normal Open' and 'Normal Close' are used for a two-wire detector that will emulate an open/close state. When the wires are closed to 'loopback' (the signal for the sensor), the sensor will detect the state as closed. The sensor will NOT activate the alarm for 'Normal Close' in this case, although the alarm will be activated if configured as 'Normal Open'.

Sensor/Alarm device Name

Configure the name of a sensor (or alarm device) with up to 31 characters.

Set Point

The threshold of a sensor (Temperature or Humidity) will trigger an alarm, whenever the measurement is over (high) or under (low) the set point. If the checkbox is not filled, the threshold is disabled and the alarm will not be triggered. The valid range for the Temperature threshold setting is 5 to 65, and 5 to 95 for Humidity.

Calibration Offset

If the measurement value of a sensor doesn't, for whatever reason, comply with the actual environment, the 'Calibration Offset' setting can be configured to adjust the final value of the sensor. For example, if a sensor reports 43% humidity for a 45% humidity environment, the user can configure the humidity offset as 2% so the sensor can then adjust its final value to 45%.

3.4.5.2. RS485 EMD

EMD Firmware Update

Upload file

This field is a button and file type input. User can select an EMD firmware image file and upload it to USHA card. When an upgrade is in progress, the upload button is disabled and the progress elements appear below the button. A confirmation message displays when upload button is clicked. After the firmware upgrade is successful, the EMDs will be restart.

RS485 EMD

Auto Address Status

To display auto address status

Auto Addressing

To execute auto addressing function.

3.4.5.3. EMD-n

Information

EMD Address

This field is read-only, defines the slave address used for Modbus, and address 0 is reserved for broadcast operation. Available values are 1 to 255. The default value is 1.

Application FW Version

EMDn firmware version

EMD-n

LT Close

This field defines whether the line termination of the EMD is closed or open. Available values are Disabled and Enabled. The default value is Disabled and the line termination is open.

Location Name

This field let user to type-in the name of location.

Alarm-1/Alarm-2

This field defines the ease-to-remember name of Alarm-n and whether it is enabled or disabled. Available values of name are alphabetic characters and numerals. The maximum size is 31 characters and default value is "Alarm-n Name", n is 1 or 2.

<u>Sensor</u>

This field is read-only and defines the sensor type. Available values are Temperature (°C) and Temperature (°F). The default value is Temperature (°C).

Sensor Name

This field let user to type-in the name of temperature sensor. The default value is Temperature Name.

Calibration Offset

This field is used to improve the accuracy of temperature. Available values are +3.0, +2.5, +2.0, +1.5, +1.0, +0.5, 0.0, -0.5, -1.0, -1.5, -2.0, -2.5 and -3.0. The default value is 0.0.

Critical Set Point (High)

This field defines the threshold for high critical temperature. Available values are 0 to 65 °C. The default value is 60 °C. If checkbox is checked and the temperature exceeds the threshold, an alert is raised.

Warn Set Point (High)

This field defines the threshold for high warning temperature. Available values are 0 to 65 °C. The default value is 50 °C. If checkbox is checked and the temperature exceeds the threshold, an alert is raised.

Warn Set Point (Low)

This field defines the threshold for low warning temperature. Available values are 0 to 65 °C. The default value is 10 °C. If checkbox is checked and the temperature exceeds the threshold, an alert is raised.

Critical Set Point (Low)

This field defines the threshold for low critical temperature. Available values are 0 to 65 °C. The default value is 5 °C. If checkbox is checked and the temperature exceeds the threshold, an alert is raised.

Sensor

This field is read-only and defines the sensor type. The default value is Humidity (%).

Sensor Name

This field let user to type-in the name of humidity sensor. The default value is Humidity Name.

Calibration Offset

This field is used to improve the accuracy of humidity. Available values are +6.0, +5.0, +4.0, +3.0, +2.0, +1.0, 0.0, -1.0, -2.0, -3.0, -4.0, -5.0 and -6.0. The default value is 0.0.

Critical Set Point (High)

This field defines the threshold for high critical humidity. Available values are 0 to 100 %. The default value is 90 %. If checkbox is checked and the humidity exceeds the threshold, an alert is raised.

Warn Set Point (High)

This field defines the threshold for high warning humidity. Available values are 0 to 100 %. The default value is 80 %. If checkbox is checked and the humidity exceeds the threshold, an alert is raised.

Warn Set Point (Low)

This field defines the threshold for low warning humidity. Available values are 0 to 100 %. The default value is 30 %. If checkbox is checked and the humidity exceeds the threshold, an alert is raised.

Critical Set Point (Low)

This field defines the threshold for low critical humidity. Available values are 0 to 100 %. The default value is 20 %. If checkbox is checked and the humidity exceeds the threshold, an alert is raised.

3.4.6. Multi-Language Setup

3.4.6.1. Language Setting

USHA card also supports two customized languages user can edit them on customization language page, as below.

	P:192.168.100.5 UPS:Demo_UPS Location:		
stem Status	General Settings > Multi-Language Setup		
'S Management	String Setting	Event Setting	Upload / Download
neral Settings			
ystem Configuration	Language Setting		
uthentication Configuration Veb Settings	Language Selection User	r Defined Language #1 Configuration Versi	on #0 2020-06-03T09:08:52.846Z
irmware Upgrade MD Configuration	Editable Language Name User	r Defined Language #1 Language Enable	
Iulti-Language Setup	• String Translation		
etwork	%		%
Event Notification	1 day		1 day
ternal Links	1 hour		1 hour
	1 month		1 month
	1st Warning		1st Warning
	1 week		1 week
	Aborted		Aborted
	Accept		Accept
	Account Setting		Account Setting
	AC Failed		AC Failed
	Action		Action

Language Selection

This field selects the custom language you want to edit.

Editable Language Name

This field defines the language name that will be displayed in language combo box.

Configuration Version

This field shows the language configuration version.

Language Enable This field determines whether a custom language is displayed in the language combo box. If checked, the value of the Editable Language Name is displayed in the combo box.

3.4.6.2. String Translation

This table lists all the strings used on all pages, and users can edit them to any language, such as Japanese or other languages.

3.4.6.3. Event Translation

This table lists all the strings used in all events, and users can edit them to any language, such as Japanese or other languages.

IP	:192.168.100.5 UPS:Demo_UPS Lo	cation:	
System Status	General Settings > Multi-Language Se	tup	
UPS Management	String Setting	Event Setting	Upload / Download
General Settings			
System Configuration	Language Setting		
Authentication Configuration	Language Selection	User Defined Language #1 Configuration V	rersion #0 2020-06-03T09:08:52.846Z
Web Settings Firmware Upgrade FMD Configuration	Editable Language Name	User Defined Language #1 Language En	able
Multi-Language Setup	• Event Translation		
Network	Event / Log Description		
Event Notification	%1 Cold boot		%1 Cold boot
External Links	%1 Warm boot		%1 Warm boot
	Network link up		Network link up
	Network link down		Network link down
	%1 Restart		%1 Restart
	%1 Parameters reset to default		%1 Parameters reset to default
	Parameters checksum error		Parameters checksum error
	%1 Firmware upgrade		%1 Firmware upgrade
	History log cleared		History log cleared
	Extended histony log cleared		Extended bistory (an element

3.4.6.4. Web String

On this page, users can download all translated language strings to a file and upload them to other USHA cards. Users can also upload the files to the USHA card.

ПСНУ		😬 Hi! usha 🛛 🕣 Log	out English V Time: 24/07/2020 09:54:54
USHA			
IP	:192.169.100.5 UPS:Demo_UPS Location:		
 System Status 	General Settings > Multi-Language Setup		
 UPS Management 	String Setting	Event Setting	Upload / Download
 General Settings 			
System Configuration	Web String		
Authentication Configuration Web Settings Firmware Upgrade EMD Configuration Multi-Language Setup • Network • Event Notification • External Links	Translated String Download wefweefew Translated String Download User Defined Language #2 Translated String Upload Uplo	ad Choose File No file chosen	

Translated String Download

This field is a button that the user can use to download all translated strings into a file.

Translated String Upload

This field is a button and file type input, and the user can select the translated file and upload it to the USHA card.

3.5. Network

3.5.1. Network settings

stem Status PS Management eneral Settings etwork etwork etwork etwork settings rotocols fakeOnLAN onnections ent Notification ternal Links	ystem Status PS Management eneral Settings etwork Network settings Protocols WakeOnLAN Connections yent Notification ternal Links	System Status JPS Management General Settings Network Network settings Protocols	Network > Network settings Network setting IPv4 IP address	192 169 100 S	IPv6	
As Management eneral Settings etwork etwork settings rotocols (akeOnLAN onnections ent Notification ternal Links Metwork settings IPV4 IP address 192.168.100.5 Gateway Address 192.168.100.110 Static DHCP DNS Address 200 IPV6 Configuration Automatic C Configuration Automatic C Configurat	PS Management eneral Settings etwork Network settings Protocols WakeOnLAN Connections vent Notification dernal Links PS Management Network settings Network settings Network settings Network settings DNS Address 192.168.100.5 Gateway Address 192.168.100.110 Subnet Mask 255.255.25.0 BootP/DHCP Control DNS Address 1 0.0.0.0 DNS Address 2 0.0.0.0 Apply Apply	JPS Management General Settings Network Network settings Protocols	Network settine IPv4 IP address	1921681005	IPv6	
etwork settings etwork settings rotocols vakeOnLAN onnections ent Notification ternal Links	eneral Settings etwork Network settings Protocols WakeOnLAN Connections yent Notification dternal Links	General Settings Network Network settings Protocols	IPv4 IP address	1021581005	IPv6	
etwork IP address 192.168.100.5 cotocols Gateway Address 192.168.100.110 Subnet Mask 255.255.20 BootP/DHCP Control © Static DHCP DNS Address 1 0.0.00 DNS Address 2 0.0.00	etwork IPv4 Network settings IP address Protocols Gateway Address 192.168.100.110 Subnet Mask 255.255.25.0 BootP/DHCP Control © 1Pv6 Connections 0.0.0 DNS Address 1 0.0.0 DNS Address 2 0.0.0	Network Network settings Protocols	IP address	102 168 100 5	IPv6	
IP address 192.168.100.5 Configuration Automatic rotocols Gateway Address 192.168.100.110 Local Address fe80:2e0.4cfffe81.96c1/64 Subnet Mask 255.255.05 Global Address inclination ant Notification DNS Address 2 0.0.0 inclination ternal Links Apply	Network settings IP address 192.168.100.5 Configuration Automatic Protocols Gateway Address 192.168.100.110 Local Address 1680:2e0:4cffde81.96c1/64 Subnet Mask 255.255.25.0 BootP/DHCP Control © Static O HCP Configuration Conter Address 2:/0 Protocols BootP/DHCP Control © Static O HCP DNS Address 1 0.0.0 Conter Address 2:/0 DNS Address 2 0.0.0 DNS Address 2 0.0.0 Conter Address 2:/0	Network settings Protocols	IP address	102 168 100 5		
Gateway Address 192.168.100.110 Local Address 1680:2e04.cfffe81.96:L/c4 VakeOnLAN Subnet Mask 255.255.05 Global Address Colal Address 1680:2e04.cfffe81.96:L/c4 BootP//DHCP Control Image: StateColar Colar Co	Gateway Address 192.168.100.110 Local Address fe80:2e0.4cffte81.96c1/c4 WakeOnLAN Subnet Mask 225.255.255.0 Global Address Global Address BootP/DHCP Control Image: Static D HCP DNS Address 1 0.0.00 DNS Address 2 0.0.00 DNS Address 2 0.0.00 Image: Static D HCP Image: Static D HCP Image: Static D HCP Image: Static D HCP	Protocols		132.100.100.5	Configuration	Automatic 💌
Subnet Mask 255.255.0 Global Address Color Address 2/0 onnections DNS Address 2 0.0.0 Color Address 2/0 DNS Address 2 0.0.0 Address 2/0	Subnet Mask 255,255,0 Global Address Connections vent Notification tternal Links Address 2 0,0,0,0 Global Address 2 0,0,0	11000000	Gateway Address	192.168.100.110	Local Address	fe80::2e0:4cff:fe81:96c1/64
BootP/DHCP Control Static OHCP Router Address 2/0 onnections DNS Address 1 0.0.0.0 DNS Address 2 0.0.0.0 ternal Links Apply	BootP/DHCP Control StaticO DHCP Router Address 0.0.00 DNS Address 1 0.0.00 DNS Address 2 0.0.00 Router Address 2/0 <td< td=""><td>WakeOpLAN</td><td>Subnet Mask</td><td>255.255.255.0</td><td>Global Address</td><td></td></td<>	WakeOpLAN	Subnet Mask	255.255.255.0	Global Address	
offication DNS Address 1 0.0.0 ent Notification DNS Address 2 0.0.0 ternal Links Apply	Vent Notification cternal Links DNS Address 1 0.0.0 Mail 0.0.0	Carrantian	BootP/DHCP Control	Static O DHCP	Router Address	::/0
ternal Links	Apply	Connections	DNS Address 1	0.0.0.0		
Apply	Apply Apply	event Notification	DNS Address 2	0.0.0.0		
		4			Арру	

3.5.1.1. IPv4

This page lets you configure settings related to IPv4.

IP Address

The IP address of USHA in dotted format (eg. 192.9.60.229).

Gateway Address

The IP address of the gateway in dotted format (eg. 192.9.60.10).

Subnet Mask

The subnet mask of USHA (eg. 255.255.255.0).

BootP / DHCP Control

This is the parameter enabling or disabling the Boot Protocol (BootP) / Dynamic Host Configuration Protocol (DHCP) process. These protocols are used to obtain a dynamic IP address from a BootP / DHCP server.

DNS Address 1

Set the primary DNS.

DNS Address 2

Set the secondary DNS.

3.5.1.2. IPv6

This page lets you configure settings related to IPv6.

Configuration

To enable or disable IPv6 address auto-configuration of system. If enabled, system will first look for "Router Advertisement" message to do stateless auto-configuration. If there's no "Router Advertisement" message on the same link or the same subnet, then system will do the stateful auto-configuration via DHCPv6.

Local Address

The IPv6 link-local address of system (eg. FE80::2E0:D8FF:FEFF:8A59). The prefix of link-local address is always "FE80::/64". 64 is the prefix length. The link-local address is always configured by stateless auto-configuration process, and is always used in the same link or subnet.

Global Address

The IPv6 global address of system (eg. 2001:B181:2::2E0:D8FF:FEFF:8A59).

Router Address

The IPv6 address of system default router.

3.5.2. Protocols

3.5.2.1. Protocols Status

This page lets the Administrator enable or disable the communication protocols available in the USHA.

P:192. System Status Net UPS Management General Settings Network Network settings Protocols Wake/On IAN	168.100.5 UPS:Demo_UPS work > Protocols Advance Protocols Status BootP/DHCP		SNMP	Firewall
System Status Net UPS Management General Settings Network Network settings Protocols	work > Protocols Advance Protocols Status StootP/DHCP WIG Etho	Disabled 🔻	SNMP	Firewall
UPS Management General Settings Network Network settings Protocols	Advance Protocols Status BootP/DHCP NNG Echo	Disabled V	SNMP	Firewall
General Settings Network Network settings Protocols Network AN	Protocols Status RootP/DHCP NING Echo	Disabled 🔻		
Network E	Protocols Status 300tP/DHCP 2016 Echo	Disabled 💌		
Protocols	BootP/DHCP	Disabled 🔻		
Protocols	2ING Echo		SNMP Support	Enabled 🔻
Protocols WakeOnLAN	INO ECHO	Enabled 💌	SMTP Support	Enabled 💌
Wake()nLAN	Network Upgrade	Enabled 💌	NTP Control	Enabled 💌
H	HTTP Control	Enabled 💌	UPnP Control	Disabled 💌
Connections	Force Security HTTP	Disabled 🔻	Modbus TCP Control	Disabled 💌
vent Notification	HTTP Security Control	Disabled 💌	Radius TCP Configuration	Disabled 💌
External Links	SH Connection	Enabled 🔻		
	Protocols Setting			
F	Force Security HTTP	443		
ŀ	HTTP Port	80		
2	SSH Connection Port	22		
2	SNMP Port	161		
2	SMTP Port	25		
P.	Vodbus Port	502		

BootP / DHCP

This is the parameter enabling or disabling the Boot Protocol (BootP) / Dynamic Host Configuration Protocol (DHCP) process. These protocols are used to obtain a dynamic IP address from a BootP / DHCP server.

PING Echo

Enable/Disable the USHA to respond to Ping requests.

Network Upgrade

This is the parameter enabling or disabling the Trivial File Transfer Protocol (TFTP) upgrade control. You can use the provided upgrade utility on Windows via TFTP to upgrade the USHA firmware.

HTTP Control

Enable/Disable the HTTP connection with the USHA. The user may configure HTTP protocol to use a port number other than standard HTTP port (80).

Force Security HTTP

This allow administrator to Enable or Disable force login by HTTPs.

HTTP Security Control

If this setting was enabled, user has to enter user name and password when he/she access to USHA via HTTP.

SSH Connection

Enable/Disable the SSH connection with the USHA.

SNMP Support

Enable/Disable the SNMP connection with the USHA.

SMTP Support

Enable/Disable the SMTP connection with the USHA.

NTP Control

Enable/Disable the synchronization with the NTP server feature.

UPnP Support

Enable/Disable the Universal Plug and Play (UPnP) feature.

Modbus TCP Control

Enable/Disable the Modbus over TCP feature.

Radius TCP Configuration

Enable/Disable the Radius over TCP Configuration.

3.5.2.2. Protocol Setting

This page lets the Administrator configure the communication protocol with a different port number.

Force Security HTTP

The user may configure HTTPs protocol to use a port number other than standard HTTPs port (443).

HTTP Port

The user may configure HTTP protocol to use a port number other than standard HTTP port (80).

SSH Connection Port

The user may configure SSH protocol to use a port number other than standard SSH port (22).

SNMP Port

The user may configure the SNMP protocol to use a port number other than the standard SNMP port (161).

SMTP Port

The user may configure the SMTP protocol to use a port number other than the standard SMTP port (25).

Modbus Port

This field allows the administrator to set the specific port for the user that allows accessing the USHA via Modbus protocol.

3.5.2.3. SNMP v1/v2c

This page lets the Administrator to set the read/write community.

	IP:.	192.108.10	iu.5 UPS:Demo_UPS Lo	cation:				
System Status		Network >	Protocols					
UPS Management			Advance		SNMP		Firewa	I
General Settings								
Network			SNMP v1/v2c					
Network settings		Read Co	mmunity					
Protocols		Write Co	ommunity			•••••		
WakeOnLAN		O S						
Connections		Index	User Name	Auth-Protocol Password	Auth-Protocol	Priv-Protocol Password	Priv-Protocol	Security Level
Event Notification		1			MD5 🔻		DES 🔻	noAuthNoPriv
External Links		2			MD5 🔻		DES 🔻	noAuthNoPriv
		3			MD5 🔻		DES 🔻	noAuthNoPriv
	••	4			MD5 🔻		DES 🔻	noAuthNoPriv
		5			MD5 🔻		DES 🔻	noAuthNoPriv
		6			MD5 🔻		DES 🔻	noAuthNoPriv
		7			MD5 🔻		DES 🔻	noAuthNoPriv
		8			MD5 🔻		DES 🔻	noAuthNoPriv

Read Community

Set a read-only community. Default value: public.

Write Community

Set a read/write-permitted community. Default value: private

3.5.2.4. SNMP v3 USM Table

This page contains the related setting for configuring SNMPv3 protocol.

Index

This field shows the index numbers of the table entries.

User Name

This field allows the administrator to set the specific user name for the user that allows to access the USHA via SNMPv3.

Auth-Protocol Password

This field allows the administrator to set the authentication password of the associated user.

Auth-Protocol

This field allows the administrator to set the authentication protocol, HMAC-MD5 or HMAC-SHA.

Priv-Protocol Password

This field allows the administrator to set the privacy password of the associated user.

Priv-Protocol

This field allows the administrator to set the privacy protocol, DES or AES.

Security Level

This field allows the administrator to set the access type for the user. The available options are:

noAuthNoPriv - with no authentication and no privacy passwords **authNoPriv** - with authentication password but no privacy password **authPriv** - with no authentication password but with privacy password

3.5.2.5. Firewall

This page allows the administrator to set Accessible IP list

	IP:192.168.100.5 UP:	S:Demo_UPS Location:			
 System Status 	Network > Protocol	S			
 UPS Management 		Advance	SNMP	Fire	wall
General Settings					
Network	Firewall		ID address	Desful es eth	Antina
Network settings	Index		IP address	Prefix Length	Action
	2				Accept
WakeOnLAN	3				Accept
Connections	4				Accept 🔻
Event Notification	5			0	Accept 🔻
External Links	6			0	Accept 🔻
	7			0	Accept 🔻
	8			0	Accept 🔻
			Apply		
			сфру		

Index

This field shows the index numbers of the table entries.

IP Address

This field allows the administrator to set the IPv4/IPv6 address and only accept "dotted decimal notation" format (i.e., 192.168.60.229) or "hexadecimal" format (i.e., 2001:1234:100:f101:2e0:d8ff:feff:b522).

Prefix Length

This field allows the administrator to set the Prefix Length and only accept an integer between 0-32 (IPv4) or 0-128 (IPv6).

Action

Accept, this IP or IP segment could be accessed USHA. Reject, this IP or IP segment could not be accessed USHA.

3.5.3. WakeOnLAN

	IP:1	92.168.1	00.5 UP	S:Demo_UPS Loca	ation:						
System Status		Network	> WakeOr	nLAN							
JPS Management				WOL Table							
General Settings											
letwork											
Number	_	Repeat	ing Times				1				
Network settings		Interva	l Timer (Sec)			1				
	_		WOL Tab	le							
Connections		Test	Index	MAC Address	Control	Description	Test	Index	MAC Address	Control	Description
vent Notification			1	00:00:00:00:00:00	Disabled 💌			13	00:00:00:00:00:00	Disabled 🔻	
vternal Links		0	2	00:00:00:00:00:00	Disabled 🔻			14	00:00:00:00:00:00	Disabled 🔻	
			3	00:00:00:00:00:00	Disabled 🔻			15	00:00:00:00:00:00	Disabled 🔻	
			4	00:00:00:00:00:00	Disabled 🔻			16	00:00:00:00:00:00	Disabled 🔻	
			5	00:00:00:00:00:00	Disabled 💌			17	00:00:00:00:00:00	Disabled 🔻	
		0	6	00:00:00:00:00:00	Disabled 🔻			18	00:00:00:00:00:00	Disabled 🔻	
			7	00:00:00:00:00:00	Disabled 🔻			19	00:00:00:00:00:00	Disabled 🔻	
			8	00:00:00:00:00:00	Disabled 🔻			20	00:00:00:00:00:00	Disabled 🔻	
			9	00:00:00:00:00:00	Disabled 💌			21	00:00:00:00:00:00	Disabled 🔻	
		0	10	00:00:00:00:00:00	Disabled 🔻			22	00:00:00:00:00:00	Disabled 🔻	
			11	00:00:00:00:00:00	Disabled 🔻			23	00:00:00:00:00	Disabled 🔻	
			12	00:00:00:00:00:00	Disabled 🔻			24	00:00:00:00:00:00	Disabled 🔻	

3.5.3.1. Setting

"WOL" function could start up client PC from network by MAC address.

Repeating Times

The repeat times of sending WOL packet to client. The range of repeating time is 1~99.

Interval Timer (Sec)

The time interval is during two actions of sending WOL packet to client. The value is time in seconds. The range of time interval is 1~999.

3.5.3.2. WOL Table

From this page, you can set 24 MAC Address of clients. When the clients shutdown cause of UPS shutdown events, after shutdown events returned to normal, WOL packet will send to client to start up PC.

Test

If this option is selected, the WOL packet will send to client to start up PC after press "Wake On LAN test" button.

Index

The index is the number of the entry in the table.

MAC Address

Enter the MAC address of the device you want to start using a WOL packet.

<u>Control</u>

Enabled or Disabled WOL function.

Description

User sets description. The maximum length of the string is 31 characters.

WOL test

This button is used to send the WOL test packet to the target device

3.5.4. Connections

ИСНА				8	il! usha 🛛 🧿 Logout	English Time: 03/06/2020 17:14:03
USHA						
	IP:1	192.168.100.5 UPS:	Demo_UPS Location:			
 System Status 		Network > Connectio	ns			
UPS Management		Clie	ent Table			
 General Settings 		Client Table	2			
A Network						
Network settings				Connected Client Number)	
Protocols		Index	IP address	Client Name	Shutdown Delay	Connected Time
 Event Notification 						
External Links						
	Г					

3.5.4.1. Client Table

This table lists the clients that have the Shutdown Program running and have registered with USHA. This page will refresh automatically. Whenever the UPS is about to go down, these clients will be notified so that they can perform a graceful shutdown of the system.

Connected Client Number

Total of client system that has the Shutdown Program running and has registered with USHA.

Index

Serialized index number of the client registered.

IP Address

IP address of the client running the Shutdown Program and registered with USHA.

Client Name

Computer names of the client running the Shutdown Program and registered with USHA.

Shutdown Delay

This is the delay time for "Shutdown Program" in client computer to start system shutdown.

Connected Time

The time that the client running the Shutdown Program has registered with USHA.

3.5.5. Event Notification Email/Trap

3.5.5.1. Email Notification

This page description of UPS email notification setting

	IP:1	92.168.100.5	UPS:Demo_UPS Location:	_			_	_
stem Status		Event Notificati	on > Email/Trap					
S Management			Email Notification	SNMP Trap Receiv	ers			
neral Settings		🔵 Email	Notification				_	_
twork		Mail Server						
nt Notification		User Account						
mail/Trap		User Passwor	d					
ternal Links		Sender Email	Address					
		Mail Subject F	Prefix					
		DNS Address					0.0.0.0	
		Mail Daily Sta	tus Report At (hh:mm)				00:00	
		Mail support	TLS	Disat	bled 💌			
		🜔 Recei	vers Table					
		Index	Mail Account	Description	Ma	il Type	Event Filter	Event Level
		1 (None 🔻	By Severity 🔻	Information •
		2 (None 🔹	By Severity 🔻	Information •
		3				None 🔹	By Severity 🔻	Information •
		4 (None 🔹	By Severity 🔻	Information •
		5 (None 🔹	By Severity 💌	Information •
							· · · ·	· · · ·

Mail Server

As Administrator, you may enter the IP Address or Hostname of a SMTP mail server that will be used to send email messages from the SNMP/WEB Adapter. If entering a Hostname, you are also required to enter the DNS Address. If entering an IP Address, the DNS Address field will automatically be populated with the IP Address you entered.

User Account

As Administrator, you may enter the User Account of the mail server that will be used by the SNMP/WEB Adaptor to login mail server to forward mails.

User Password

As Administrator, you may enter the User Password of User Account.

Sender Email Address

This field specify the content of the 'From' field of the Email. If this field left blank, the sender's address will be account@ip_address.

Mail Subject Prefix

The string prefix in the mail subject to identify the device which send out the mail.

DNS Address

As Administrator, you are required to enter the IP address of your network DNS server if you entered a Hostname for the Mail Server. Otherwise, this field will contain 0.0.0.0.

Mail Daily Status Report At (hh:mm)

If you intend to have the SNMP/WEB Adapter send a Daily Status report to select email address (Mail Accounts), you need to enter the time of day in 24-hour format at which time you want the email sent.

Mail support TLS

Enabled/Disabled email support TLS.

3.5.5.2. Receivers Table

A maximum of 8 receivers can be registered.

Index

The index number of the entry in the table.

Mail Account

As Administrator, you may enter the email address of the individual you wish to have the SNMP/WEB Adapter send mail to.

Description

As Administrator, you may enter a description for reference purposes for each of the Mail Account you configure.

Mail Type

As Administrator, you are allowed to select what type of email is sent to a specific Mail Account. The choices are None, Events, Daily Status, or Event/Status.

The default of None allows you to disable the sending of email to a specific recipient.

Selecting Events specifies that the recipient should only receive short event-related messages.

Selecting Daily Status specifies that the recipient should only receive the Daily Status message that contains three file attachments containing information logged by the SNMP/WEB Adapter. One attachment contains the History Log contents (Logged UPS data) and the other two contains the Event Log contents, UPS Event & Agent Event (in .csv format suitable for viewing in Microsoft Excel).

Selecting Events/Status specifies that the recipient should receive an email message containing the event-related notification and the two file attachments (as described above), each time an event notification is sent.

Event Filter

This allow administrator to select the way to filter the email by Severity or by Event.

Event Level

This allow administrator to select the event level if the Event Filter is by Severity.

Event Level

As Administrator, you are allowed to select the severity level of notification you wish to send to each Mail Account configured to be sent Mail Type: Events or Events/Status. This filter is based on the SNMP-based traps (events) and allows selection of Informational, Warning or Severe. Refer to the MIB documentation included with the adapter for more information.

If the Event Filter is by Event, administrator can click "Event Select" button and select which trap should be sent by each receiver.

○ Select All Events ○ Unselect All Events	
Information	
The testing is going on UPS	🗹 The UPS has enabled bypass
🗸 UPS has entered sleep mode	✓ The UPS is reboot
✓ The UPS successfully finished its internal self-test	✓ EMD history log cleared
Warning	
Utility power not available	The UPS has switched to battery backup power
🗹 The UPS has been given shutdown command	✓ The UPS temperature is too high
✓ The UPS is overload	EMD Temperature over high set point
EMD Temperature under low set point	EMD Humidity over high set point
EMD Humidity under low set point	EMD Alarm-1 activated
✓ EMD Alarm-2 activated	
Critical	
The UPS batteries are low and will soon be exhausted	The Battery is not working fine
Communication to the UPS has been lost	The UPS failed its internal diagnostic self-test
✓ Cold boot	✓ Warm boot
[Save

Send Test

This button is used to send the test mail to the target mail address.

3.5.5.3. SNMP Trap Receivers

This page lists the parameters for SNMP trap receivers (For SNMP Network Management). A maximum of 8 receivers can be registered.

System Status UPS Management General Settings Network Event Notification	Event Notification > Emai	Email/Trap I Notification		NMP Trap Receive	rs			
UPS Management General Settings Network Event Notification	Emai	l Notification		SNMP Trap Receive	rs			
General Settings Network Event Notification	SNMP Tra							
Network Event Notification		p Receivers						
Event Notification	Test Index	NMS IP address	Community String	Trap Type	Trap Version	Event Filter	Event Level	Descrit
	0 1			None 🔻	v1 👻	By Severity 🔻	Information 🔻	
Email/Trap	2			None 🔻	v1 👻	By Severity 🔻	Information 🔻	
xternal Links	3			None 🔻	v1 •	By Severity 🔻	Information 💌	
	□ 4			None 🔻	v1 •	By Severity 🔻	Information 💌	
	5			None 🔻	v1 🔻	By Severity 🔻	Information 💌	
	6			None 🔻	v1 🔻	By Severity 🔻	Information 🔻	
44	0 7			None 🔻	v1 💌	By Severity 🔻	Information 🔻	
	8			None 🔻	v1 💌	By Severity 🔻	Information 💌	
				Trap Test Ar	opty			
								-

<u>Test</u>

If this option is selected, the test trap will send to the IP Address after press "Trap Test" button.

Index

The index number of the entry in the table.

NMS IP Address

The IP Address in dotted format of the NMS station to which the trap should be sent.

Community String

The community string of the trap PDU to be sent. The maximum length of the string is 19 characters.

Trap Type

Types of the traps to be received. Set the type of the trap. **none** : Traps are not be received. **RFC-1628 Trap** : Traps are received base on RFC-1628. **USHA Trap**: Traps are received base on USHA MIB.

Trap Version

This allow administrator to select the SNMP trap version. If v3 Trap Version is selected, the administrator has to set authorized information from SNMP v3 USM Table. When the information is set on the SNMP v3 USM Table, the User Name of table needs to be same as where Community String of the SNMP Trap Receivers sets. For SNMP v3 USM Table short cut, please refer the following information. [Network] \rightarrow [Protocols] \rightarrow [SNMP] \rightarrow [SNMP v3 USM Table]

	IP:192.168.100	1.5 UPS:AS	STIK LOCALIO						
System Status	Event Notifi	ication > Em	nail/Trap						
JPS Management		Email N	lotification	SN	MP Trap Receiver	s			
Seneral Settings									
letwork		NMP Trap R	Receivers	b	bb				
ent Notification	Test	Index N	NMS IP address	Community String	Trap Type	Trap Version	Event Filter	Event Level	
mail/Tran			192.168.100.100	/	USHA Trap •	V3 •	By Seventy	Information •	
ternal Links		2			None	VI •	By Seventy •	Information •	
		3			None •	VI ·	By Severity •	Information •	
					None +	V1 -	By Severity *	Information +	
		6			None +		By Severity *	Information *	
		7			None		By Severity	Information *	
	•				None -	VA -	Dy Severity	Information -	
USHA	IP:192.168.100.	.5 UPS:AS	S+1K Location		😬 Hi! usha	a 🗘 Log	pout English	✓ Time: 12/00	5/202
USHA tem Status 5 Management	IP:192.168.100. Network > F	.5 UPS:AS Protocols Adv	S+1K Location	*	B Hi! usha	a 🔇 Log	out English	Time: 12/00 Firewall	5/202
USHA tem Status 5 Management neral Settings	IP:192.168.100 Network > F	.5 UPS:AS Protocols Adv	S+1K Location		Ail usha	a 🔇 Log	jout English	✓ Time: 12/00 Firewall	5/202
USHA tem Status 5 Management heral Settings work	IP:192.168.100 Network > F	.5 UPS:AS Protocols Adv	S+1K Location Ivance		Hi! usha	a 💽 Log	rout <u>English</u>	▼ Time: 12/00	5/202
USHA tem Status 5 Management heral Settings work herark settings	IP:192.168.100. Network > F	.5 UPS:AS Protocols Adv JMP v1/v2c munity	S+1K Location		Hi! usha	a 🔉 Log	out <u>English</u>	Time: 12/00 Firewall	5/202
USHA tem Status 5 Management heral Settings work work stores	IP:192.168.100. Network > F Read Comm Write Comm	.5 UPS:AS Protocols Adu NMP v1/v20 munity munity	S+1K Location Ivance		SNMP	a 🔁 Log	out <u>English</u>	Time: 12/00 Firewall	5/20;
tem Status 5 Management heral Settings work twork settings otocols accond N	IP:192.168.100 Network > F Read Com Write Com	.5 UPS:AS Protocols Adv MP v1/v2o munity munity MP v3 USM	S+1K Location Ivance c M Table		SNMP		out English	✓ Time: 12/00	5/202
USHA tem Status 5 Management neral Settings work twork settings stocols akeOnLAN sepertions	IP:192.168.100 Network > F SN Read Comm Write Com	.5 UPS:AS Protocols Adi NMP v1/v2o imunity imunity IMP v3 USN Use	S+1K Location Ivance c M Table er Nam	Auth-Protocol Passwo	HI ush	Dep Log	out English	Time: 12/00 Firewall Protocol Securi	ity Le
tem Status 5 Management heral Settings work etwork settings otocols akeOnLNN onnections ot Notification	IP:192.168.100 Network > F SN Read Come Write Come Index 1	.5 UPSAS Protocols Adi MMP v1/v20 imunity smunity IMP v3 USN Use	S+1K Location Ivance c M Table as	Auth-Protocol Passwoi	HI ush	Loc	Password Priv-F	Time: 12/00 Firewall Protocol Securi	rity Le
tem Status S Management eral Settings work twork settings otocols akeOnLAN minections int Notification email Links	IP:192.168.100 Network > F Read Com Wite Com Index 1 2	25 UPSAS Protocols Ad ¹ NMP v1/v2d imunity imunity NMP v3 USI Use	S+1K Location Ivance c M Table er Namy aaz bab	Auth-Protocol Passwor	Hit usha	Decomposition	Password Priv-F	▼ Time: 12/00 Firewall	rity Le thPriv
USHA tem Status S Management heral Settings work etwork settings ofocols akeOnLAN annections mit Notification ernal Links	IP:192.168.100 Network > F SN Read Comm Write Com Unite Com 1 2 3	2.5 UPS:AS Protocols Ad ¹ NMP v1/v2d imunity imunity NMP v3 USN Use	S+1K Location Ivance c er Nano aaa bbb ccc	Auth-Protocol Passwo	SNMP	Dec	Password Priv-F	▼ Time: 12/00 Firewall Protocol Secur DES ▼ au DES ▼ au DES ▼ au	tity Le thPriv thPriv
USHA tem Status S Management heral Settings twork etwork settings abconLAN annections ernal Links	IP:192.168.100 Network > F Read Com Write Com Index 1 2 3 4	25 UPSAS Protocols Adi VMP v1/v2c munity vmunity VMP v3 USt [[[[[S+1K Location Ivance c M Table er Nam as bbb ccc ddd	Auth-Protocol Passwo	Hit ush SNMP MOS = MOS = MOS =	Control C	Password Priv-F	▼ Time: 12/04 Firewall Firewall PS ■	5/202 thPriv thPriv thPriv thPriv
tem Status 5 Management teral Settings work etwork settings akeOnLAN mnections int Notification ernal Links	IP392.168.100 Network > F Stead Com Write Com Index 1 2 3 4 5	SUPSAS Protocols Adv MP v1 v2c munity munity MP v3 USt Use	S+1K Location Ivance c M Lable er Nam aaa bab bab bab eee	Auth-Protocol Passwor	MDS *	Dep D	Password Priv-F	▼ Time: 12/00 Firewall Firewall Protocol Security SES ▼ au DES ▼ au	5/202 thPriv thPriv thPriv thPriv thPriv
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USHA tem Status S Management neral Settings twork etwork settings accontant accontant accontant accontant secontant secontant accontan	IP:192.168.100 Network > F Read Com Wite Com Index 1 2 3 4 5 6 7	S UPSAC Protocols Ad UMP v1/v2c munity munity SNMP v3 USt Use	S+1K Location Ivance c M Table er Namp ass beb beb ded ded eee fff g9g	Auth-Protocol Passwor	Hill ush SNMP d Auth-Protoco MD5 = MD	Control C	Password Priv-F	▼ Time: 12/00 Firewall 55 ▼ au	5/202 thPriv thPriv thPriv thPriv thPriv thPriv thPriv

Event Filter

This allow administrator to select the way to filter the trap by Severity or by Event.

Event Level

This allow administrator to select the event level if the Event Filter is by Severity.

Set the level of the trap to be received.

Information: All traps are received

Warning: Trap that need to be noticed and are in dangerous is received.

Severe : The significant traps such as the UPS failure and low-battery which cause the immediate halt the output of the UPS are received.

If the Event Filter is by Event, administrator can select which trap should be sent by each receiver.

Select All Events Unselect All Events	
Information	
The testing is going on UPS	✓ The UPS has enabled bypass
UPS has entered sleep mode	✓ The UPS is reboot
The UPS successfully finished its internal self-test	Z EMD history log cleared
Warning	
Utility power not available	The UPS has switched to battery backup power
The UPS has been given shutdown command	✓ The UPS temperature is too high
✓ The UPS is overload	EMD Temperature over high set point
EMD Temperature under low set point	EMD Humidity over high set point
EMD Humidity under low set point	EMD Alarm-1 activated
✓ EMD Alarm-2 activated	
Critical	
The UPS batteries are low and will soon be exhausted	The Battery is not working fine
Communication to the UPS has been lost	✓ The UPS failed its internal diagnostic self-test
✓ Cold boot	✓ Warm boot
Sa	Ve Close

Description

Customer description string.

<u>Trap Test</u> This button is used to send the test trap to the target IP address.

Chapter 4. Configuring the USHA via SSH

There are different ways to connect the USHA card by different models showed as below.

4.1. Configuring via SSH

 SSH to the USHA from your workstation. When the below messages display on the screen, please enter the user name and password (the default username is *usha* and the password is *admin*). Then the USHA configuration utility main menu will show on the screen.

> Login as : usha usha@192.168.53.23's password: *****

2. Select "1" to enter the SNMP/WEB Card Settings page.



4.1.1. Setting the IP Address, Gateway Address, Network Mask and Date/Time

From the configuration menu, press "1" to select this function and set the IP address, Gateway address and other group parameters. The definitions of these parameters are listed as below.

1. Select "1" to enter the IP, Time and System Group page.



2. Select "1" to enter the **IPv4 Group** page or "2" to enter the **IPv6 Group** page depends on network condition.

USHA Configuration Utility [IP, Time and System Group]					
SNMP/WEB Card Version : Ethernet Address :	New USHA v0.90 b1 00:E0:D8:FF:B4:41				
 IPv4 Group IPv6 Group Date and Time Group 					
 4. System Contact : 5. System Name : 6. System Location : 0. Return to previous menu 	0 USHA				
Please Enter Your Choice => 1					

3. Enter the related IPv4 or IPv6 setting as shown below.

IP, Time and System Group						
[IPv4 Group]						
=======================================						
1. IP Address :	10.1.6.118					
2. Gateway Address :	10.1.1.254					
3. Network Subnet :	255.255.0.0					
0. Return to previous menu						
Please Enter Your Choice => 0						
	or					
IP, Time and System Group						
[IPv6 Group]						
1. IP V6 Address :	2001:1234:100:1101:2e0:d8ff:feff:b406/64					
0. Return to previous menu						
Please Enter Your Choice -> 0						
Please Enter Your Choice => 0						

4. Select "3" to enter the **Date and Time Group** pages

======================================	
1. System Date (dd/mm/yyyy) :	22/12/2012
2. System Time (hh:mm:ss) :	15:03:15
3. NTP Server :	
4. NTP Time Zone :	62
5. Daylight Saving Time Control : Disabled	
0. Return to previous menu	
Please Enter Your Choice => 0	

After completing these settings, press "0" to return to the configuration menu.

4.1.2. Network Control Group Setting

Go to the configuration menu, press "2" to enabled/disabled the network protocols.

USHA Configuration Utility UPS Model : 0va					
	1. IP, Time and System Group				
	2. Network Control Group				
	3. Account Control Group				
	4. Email Group				
	5. SNMP Group				
	0. Back to Main Menu				
	Please Enter Your Choice => 2				

1. Select <u>"6~9</u>" to enter the related network control pages.

USHA Configuration Utility [USHA Network Control Group]					
1. BOOTP/DHCP Control :	Disabled				
2. Upgrade Control :	Enabled				
3. Ping Echo Control :	Enabled				
4. UPnP Control :	Enabled				
5. Http Security : 6. Http Control Group 7. SNMP Control Group	Disabled				
8. SMTP Control Group					
9. SSH Control Group					
0. Return to previous menu					
Please Enter Your Choice => 6					

2. Enter the related HTTP setting as shown below.

======================================	ntrol Group rol Group]
1. HTTP Control :	Enabled
2. HTTP Port :	80
0. Return to previous menu	
Please Enter Your Choice => 0	

3. Enter the related SNMP setting as shown below.

======================================	Group Group]
1. SNMP Control : 2. SNMP Port : 0. Return to previous menu	Enabled 161
Please Enter Your Choice => 0	

4. Enter the related SMTP setting as shown below.

Network Control G	roup noup
1. SMTP Control :	Enabled
2. SMTP Port :	25
0. Return to previous menu	
Please Enter Your Choice => 0	

5. Enter the related SSH setting as shown below.

Network Control Gr	 oup up]
1. SSH Control : 2. SSH Port : 0. Return to previous menu	Enabled 22
Please Enter Your Choice => 0	

After completing these settings, press "0" to return to the configuration menu.

4.1.3. Account Control Group Setting

Go to the configuration menu, and choose "3" to modify the related account control identification information.

	USHA Configuration Utility UPS Model : 0va
	 IP, Time and System Group Network Control Group Account Control Group Email Group SNMP Group Back to Main Menu
PI	lease Enter Your Choice => 3

1. Select $(1 \sim 3)$ to enter the related account control pages.

USHA Configuration Utility [Account Control Group]		
1. RADIUS Group		
2. Access Control Table		
3. Super User Group		
0. Return to previous menu		
Please Enter Your Choice => 1		

2. Enter the related RADIUS setting as shown below.

Account Control Group [RADIUS Group]		
1. RADIUS Port :	1812	
2. RADIUS Server Settings		
3. Packet Timeout :	1	
4. Packet Retry :	3	
0. Return to previous menu		
Please Enter Your Choice => 0		

3. Enter the related access control setting as shown below.

Account Control Group [Access Control Table]						
User Name User Password User Level						
[1] [2] [3] [4] [5] [6] [7] [8]	* * * * * *	Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled				
Command : 1. Display one entry 2. Modify one entry 0. Return to previou Please Enter Your Ch	y us menu noice => 0					

4. Enter the related super user setting as shown below.

======================================		
1. User Name :	usha	
2. User Password :	*	
0. Return to previous menu		
Please Enter Your Choice => 0		

After completing these settings, press "0" to return to the configuration men

4.1.4. Email Group Setting

Go to the configuration menu, and press "4" to modify the Email configuration.

USHA Configuration Utility UPS Model : 0va
 IP, Time and System Group Network Control Group Account Control Group Email Group SNMP Group Back to Main Menu
Please Enter Your Choice => 4

1. Enter the related E-mail setting as shown below.



2. Enter the related mail receiver setting as shown below.

Email Group [Mail Receiver Table]			
Mail Account	Description	Mail Type	Event Level
[1]		None	Information
[2]		None	Information
[3]		None	Information
[4]		None	Information
[5]		None	Information
[6]		None	Information
[7]		None	Information
[8]		None	Information
Command :			
1. Display one entry			
2. Modify one entry			
0. Return to previous men	u		
Please Enter Your Choice =:	> 0		

After completing these settings, press "0" to return to the configuration menu.

4.1.5. SNMP Group Setting

Go to the main configuration menu, and press "5" for the SNMP Group.

USHA Configuration Utility UPS Model : 0va
 IP, Time and System Group Network Control Group Account Control Group Email Group SNMP Group Back to Main Menu
Please Enter Your Choice => 5

If you want to use a PC and perform the SNMP manager 'trap' function in order to manage UPS through USHA, the IP address of the PC must be added to the USHA list.

Note: The Set Trap Receivers configuration is used only for SNMP Network Manager.

USHA Configuration Utility [SNMP Group]
1. Trap Receiver Table
2. SNMPv3 USM Table
0. Return to previous menu
Please Enter Your Choice => 1

1. Enter the related Trap receiver setting as shown below.

	 ز [Trap]	SNMP Group Receiver Table]	
IP Address	Community/Name	Тгар Туре	Severity	Description
[1] [2] [3] [4] [5] [6] [7] [8]		None None None None None None None None	Information Information Information Information Information Information Information	
Command : 1. Display one 2. Modify one e 0. Return to pre Please En	entry entry evious menu ter Your Choice => 0			

 Enter the related SNMPv3 USM setting as shown below. If you want to use a workstation with SNMP Manager or set up more restrictive access, you can add the IP address of the clients on the access control table for the access permissions.

======================================					
User Name	Auth Password	Auth.	Priv Password	Privacy	Security
[1] [2] [3] [4] [5] [6] [7] [8]		MD5 MD5 MD5 MD5 MD5 MD5 MD5 MD5		DES DES DES DES DES DES DES	noAuthNoPriv noAuthNoPriv noAuthNoPriv noAuthNoPriv noAuthNoPriv noAuthNoPriv noAuthNoPriv noAuthNoPriv
Command : 1. Display one entry 2. Modify one entry 0. Return to previous menu Please Enter Your Choice => 0					

After completing these settings, press "0" to return to the configuration menu.

4.1.6. Back to Main Menu

Press "0" to return to the main menu.

4.1.7. End of USHA Console Configuration

After completing the configuration, press "0" to end the console connection. Reboot USHA is not necessary, unless you press "4" to end the console connection and force USHA reboot again.

USHA Configuration Utility	
[New USHA v1.00]	
 SNMP/WEB Card Settings Reset Account/Password to Default Reset Configuration to Default Restart SNMP/WEB Card Exit 	
Please Enter Your Choice => 0	

As so far, USHA initialisation is completed.

Note: If you want USHA to load the factory configuration default, you may press "3" to Reset Configuration to Default.

Chapter 5. Managing USHA/UPS via SNMP

5.1. Setting SNMP parameters in USHA

If you intend to manage your USHA/UPS via SNMP NMS (Network Management station), you may want to customize some of the SNMP settings (such as System Name, System Contact and System Location and so on).

Before using USHA in SNMP environment, the IP address and gateway must be properly configured. Please refer to Chapter 2 for the details.

5.2. SNMP Access Control Setting

Because of the USHA supports SNMP network protocol, you can use SNMP NMS to manage UPS through the network. The IP address of the workstation must be set up in the USHA write access table to prevent unauthorized users from configuring USHA via HTTP or SNMP protocols.

Note: If you do not enter the IP address of the workstation to the Access Control Table (via SSH) or the SNMP/HTTP Access Control (via Web Browser) in USHA, the SNMP NMS can only view the UPS status; it will not be able to perform any configuration on USHA/UPS. (See Pg. 39 SNMP Control Table and SNMPv3 USM Table for details.)

5.3. SNMP Trap Receivers Setting

See Pg. 42 SNMP Trap Receivers for details.

5.4. Set up SNMP Manager Software

- 1. Add the MIB file of USHA from the USHA CD-ROM to the MIB database of the SNMP manager.
- 2. Search the USHA equipment in the network
- 3. To access the USHA SNMP agent, use 'public' for the GET community string and the Read/Write password (default is **private**) for the SET community string.

GET Community string: public SET Community string: **private**

For more information, see the MIB file on the USHA CD-ROM.

Chapter 6. UPS Power Management

One of the most significant features of the USHA is dealing with almost all the power crisis confront to a UPS and protect your valuable information reside in your server from being damage due to the abrupt shutdown of the server. In addition, USHA can help corporate to cut down the expensive energy bill by shutdown all the computer workstations in the office automatically during holiday or after office-hour by using the Weekly Shutdown schedule or Special Day schedule. These schedules can also assist MIS staff to prevent unauthorised access to the server after office-hour time.

6.1. Turn off UPS Manually

When there is a need to turn off the UPS manually, please go to the UPS Control in the UPS Management menu. Login the web user interface as an administrator identity. Select the radial button beside Turn off UPS and click the Send button.



6.2. Set UPS into Sleep Mode Manually

When there is a need to set up the UPS into sleep mode manually, please go to the UPS Control in the UPS Management menu. Login the web user interface as an administrator identity. Select the radial button beside UPS Sleep and click the Send button.



6.3. UPS Shutdown during Power Crisis

USHA responds to seven different kinds of UPS shutdown events and it will take appropriate action to protect your information in your server. Go to the UPS Shutdown in the UPS Management menu. Login the web user interface as an administrator identity. Configure the UPS Shutdown table to meet your need. Click the Set Value button when finished.



6.4. Managing the UPS Shutdown Schedule

USHA supports two kinds of shutdown schedules – (1) Weekly Schedule; (2) Special Day Schedule.

Note: Before managing the UPS Shutdown Schedule, please make sure that the Date and Time configured in USHA is correct.



Chapter 7. Appendix A Technical Information

7.1. LED Definition

The function of the USHA miniGOLD 2 & SMART 3 are indicated by the Status/EMD and Network LEDs, as listed in the following tables.

	min	iGL	OD	2
--	-----	-----	----	---

No.	Port	Green LED	Yellow LED	Function
1	Network	ON	Flashing	Ethernet 100 Traffic
2		OFF	Flashing	Ethernet 10 Traffic
3		ON	OFF	100 Base-TX Ready
4		OFF	ON	10 Base-T Ready
5		OFF	OFF	Ethernet Disconnection
6	Status/	ON	OFF	Power On(Normal Status)
7	EMD	ON	Flashing	RS232 Port Activity (UPS site)
8		OFF	OFF	Hardware Error

SMART 3

No.	Port	Green LED	Amber LED	Function
1	Network	ON	Flashing	Ethernet 100 Traffic
2		OFF	Flashing	Ethernet 10 Traffic
3		OFF	OFF	Ethernet Disconnection
4		ON	ON	100 Ready
5		OFF	OFF	10 Ready
6	EMD	ON	Flashing	RS-232 Port Activity
7		ON	OFF	Power On(Normal Status)
8		Two LED cross	Two LED cross	Auto Diagnostic Mode (MFG
		Flashing	Flashing	mode)
9		ON	ON	Auto Diagnostic Mode (MFG
				mode)
10		OFF	ON	Hardware Error

7.2. Technical Specification

miniGOLD 2

Function	Description
Power Input	DC +3.5V ~ 15V
Power Consumption	Maximum 3.0 Watts
SMT Switch	SMT switch on the board for restart USHA
Dimension(L x W x H mm)	80 x 42 x 18 mm
Operating Temperature	0 ~ 60° C
Operating Humidity	10 ~ 80 % (Non-condensing)
EMC Regulation	CE, FCC Class B

Smart 3

Function	Description
Power Input	DC +5.5V ~ +40V
Power Consumption	3 W Max. (without EMD)
Operating Temperature	0°C ~ +60°C
Operating Humidity	10 ~ 80 %
EMC Regulation	CE, FCC Class B