

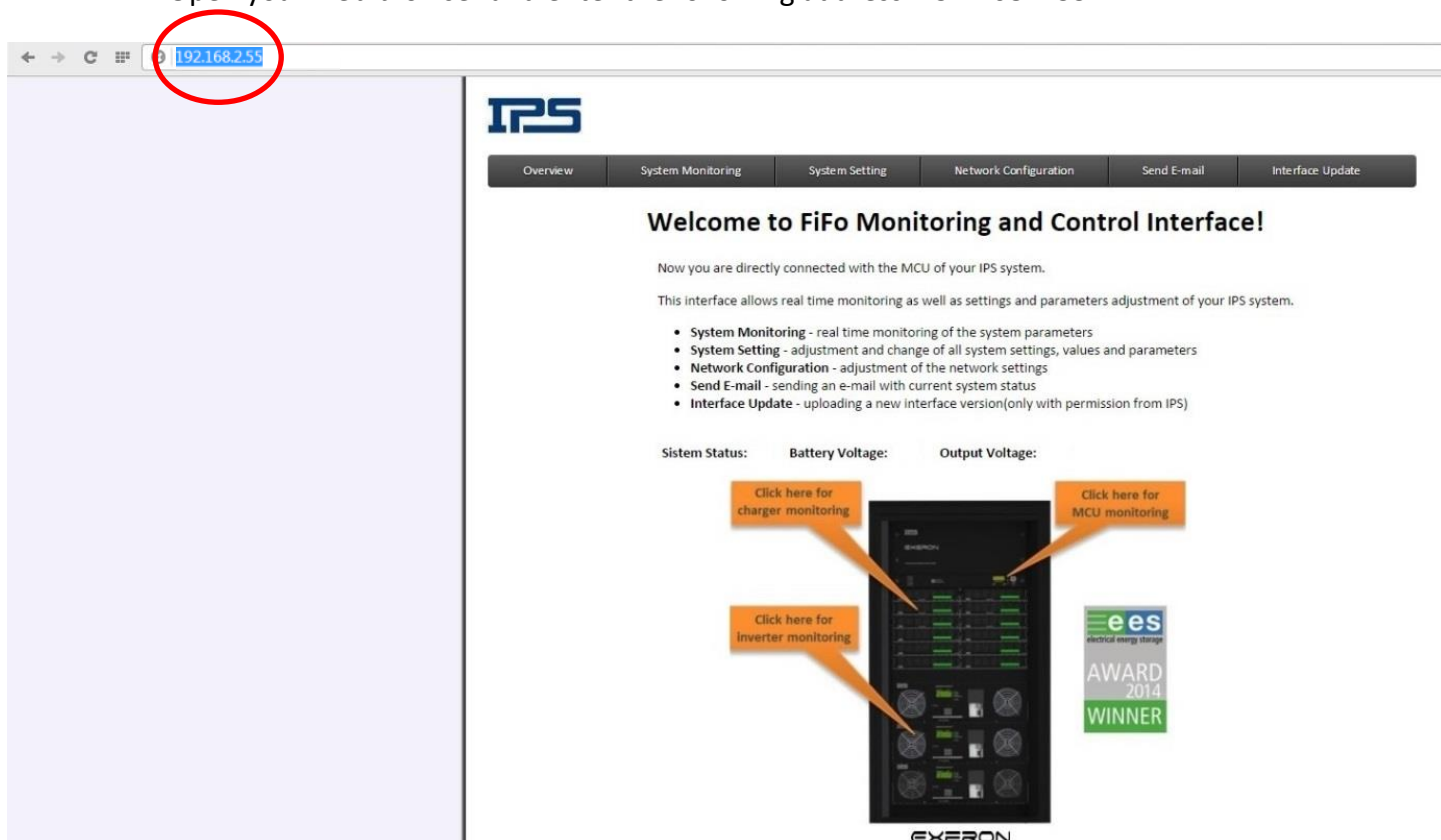
FiFo Monitoring and Control Center Simple Manual

- ❖ First you need to connect your PC directly to the system (RJ45) with straight cable. You have to configure your network adapter with the following settings:

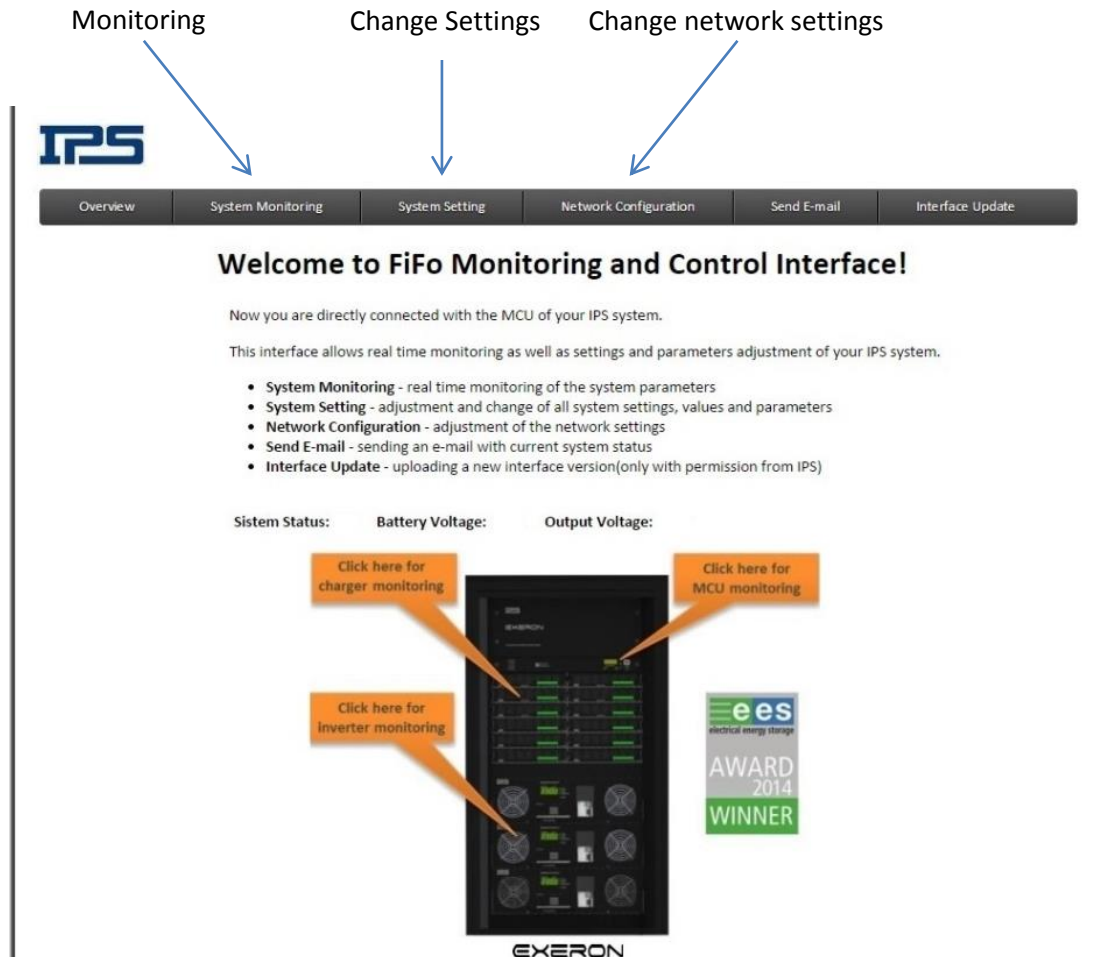
IP:192.168.2.1 and **MASK:**255.255.255.0



- ❖ Open your web browser and enter the following address: 192.168.2.55



- ❖ Now you are connected in real time with the system. You can monitor and change the system settings directly via PC. You can:



The screenshot shows the 'FiFo Monitoring and Control Interface' for an IPS system. At the top, there is a navigation bar with the following tabs: Overview, System Monitoring, System Setting, Network Configuration, Send E-mail, and Interface Update. Above this bar, three blue arrows point to specific tabs: 'Monitoring' points to 'System Monitoring', 'Change Settings' points to 'System Setting', and 'Change network settings' points to 'Network Configuration'.

Below the navigation bar, the main content area starts with the heading 'Welcome to FiFo Monitoring and Control Interface!'. This is followed by a welcome message: 'Now you are directly connected with the MCU of your IPS system.' and a description: 'This interface allows real time monitoring as well as settings and parameters adjustment of your IPS system.'

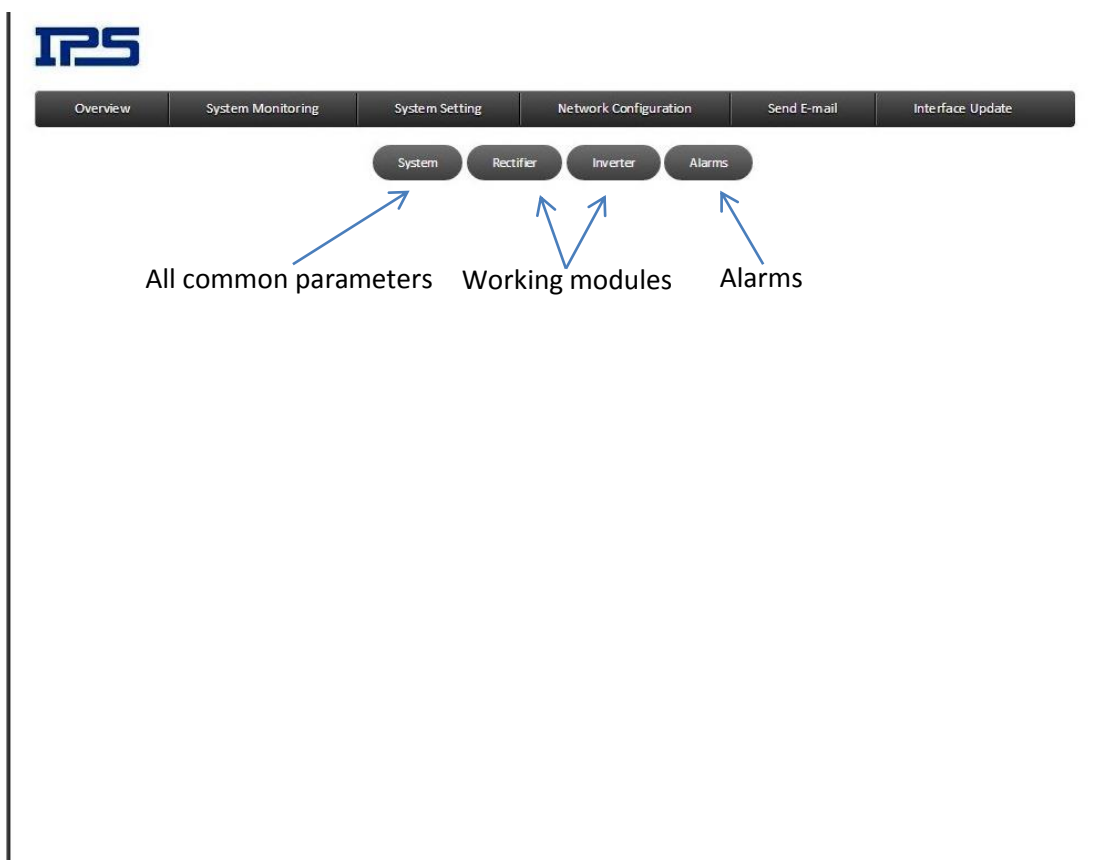
A bulleted list of features is provided:

- **System Monitoring** - real time monitoring of the system parameters
- **System Setting** - adjustment and change of all system settings, values and parameters
- **Network Configuration** - adjustment of the network settings
- **Send E-mail** - sending an e-mail with current system status
- **Interface Update** - uploading a new interface version(only with permission from IPS)

Below the list, there are three status indicators: 'Sistem Status:', 'Battery Voltage:', and 'Output Voltage:'. In the center, there is a large, dark-themed monitoring dashboard with various gauges and data points. Three orange callout boxes with arrows point to specific parts of the dashboard: 'Click here for charger monitoring' points to a gauge, 'Click here for inverter monitoring' points to another gauge, and 'Click here for MCU monitoring' points to a third gauge.

To the right of the dashboard, there is a green award badge that reads 'ees electrical energy storage AWARD 2014 WINNER'. At the bottom center of the dashboard area, the word 'EXERON' is displayed.

❖ You can monitoring the following parameters:




a. All common parameters:

The screenshot shows the IPS System Monitoring interface with the 'System' sub-menu selected. Below the sub-menus, there is a table titled 'Measurements of system:'.

Measurements of system:	
Battery voltage	
Current to the battery	
Current to the system load	
Battery asymmetry string 1	
Battery temperature	
Cabinet temperature	
AC input voltage (R)	
AC input voltage (S)	
AC input voltage (T)	
Time:	
Date:	

b. Working modules

- Rectifier




OverviewSystem MonitoringSystem SettingNetwork ConfigurationSend E-mailInterface Update

SystemRectifierInverterAlarms

Charging Grid modules:		Charging PV modules:		Charging GenSet (R) modules:		Charging GenSet (S) modules:		Charging GenSet (T) modules:	
Working Grid modules		Working PV modules		Working GenSet (R) module		Working GenSet (S) module		Working GenSet (T) module	
Output current		Output current		Output current		Output current		Output current	
Output current in percentages		Output current in percentages		Output current in percentages		Output current in percentages		Output current in percentages	

- Inverter




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SystemRectifierInverterAlarms

Inverter (R) modules:		Inverter (S) modules:		Inverter (T) modules:	
Working Inverter (R) module		Working Inverter (S) module		Working Inverter (T) module	
Output current		Output current		Output current	

c. Alarms



Overview

System Monitoring

System Setting

Network Configuration

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Interface Update

System

Rectifier

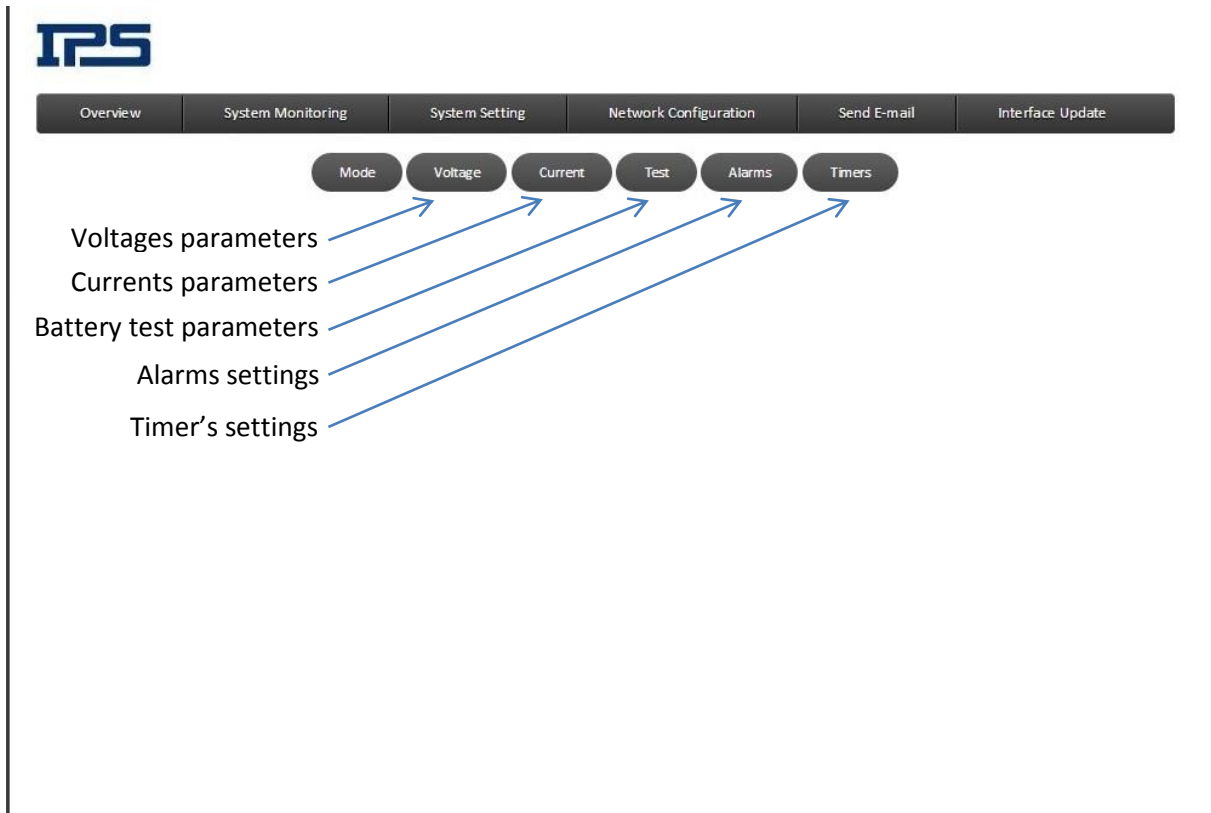
Inverter

Alarms

Alarms:

Any malfunction in the system	•
Load fuse blown	•
Battery fuse blown	•
Battery test fault	•
3 phases outage failure	•
Low battery voltage	•
High battery voltage	•
Module failure	•
High battery temperature	•
LVD active	•

- ❖ To enter in to the system settings menu you need to use **user name:** admin and **password:** ipspass .You can change the following system settings:



a. Voltages parameters:

The screenshot shows the IPS Voltage settings page. The top navigation bar is the same as the previous screenshot. The sub-menu 'Voltage' is selected. The page displays a table of settings with columns for 'Value', 'Current', and 'Set'.

Value	Current	Set
Float Voltage:		<input type="text"/> SET
Boost Voltage:		<input type="text"/> SET
Temp. comp. per cell:		<input type="text"/> SET
Low Voltage Disconnect		
Activation Voltage:		<input type="text"/> SET
Deactivation voltage:		<input type="text"/> SET
Inverter Input Low voltage		
Switching ON:		<input type="text"/> SET
Switching OFF:		<input type="text"/> SET
Inverter Input High voltage		
Switching ON:		<input type="text"/> SET
Switching OFF:		<input type="text"/> SET

ATTENTION! To change VOLTAGE value you need to enter four digit. For example to change battery boost voltage with 56,00V you need to enter 5600 in the box. To change CURRENT value you need to enter minimum two digit. For example to change max. battery current with 25,5A you need to enter 255 in the box.

CAUTION: The change of these values is not recommended. It can lead to failure of the system. Consultation with IPS in advance is highly recommended before making any changes to the system's settings.

b. Currents parameters:

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Mode

Voltage

Current

Test

Alarms

Timers

Value

Current

Set

Max battery current:

Boost to Float current:

Float to Boost current:

SET

SET

SET

ATTENTION!

To change VOLTAGE value you need to enter four digit. For example to change battery boost voltage with 56,00V you need to enter 5600 in the box. To change CURRENT value you need to enter minimum two digit. For example to change max. battery current with 25,5A you need to enter 255 in the box.

CAUTION:

The change of these values is not recommended. It can lead to failure of the system. Consultation with IPS in advance is highly recommended before making any

c. Battery test parameters:

IPS

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Mode

Voltage

Current

Test

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Timers

Value

Set

Max. battery test current:

Cut-off voltage:

Minimum voltage to start:

Battery test duration:

Battery test date:

Battery test interval:

Hour

Min

SET

Hour

Min

Day

Mouth

Year

SET

Hour

Min

Day

Mouth

Year

Interval

SET

Value	Current
Max. battery test current:	
Cut-off voltage:	
Minimum voltage to start:	
Battery test duration:	
Battery test date:	
Battery test interval:	

ATTENTION!

To change VOLTAGE value you need to enter four digit. For example to change battery boost voltage with 56,00V you need to enter 5600 in the box. To change CURRENT value you need to enter minimum two digit. For example to change max. battery current with 25,5A you need to enter 255 in the box.

d. Alarms parameters:

IPS

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Mode

Voltage

Current

Test

Alarms

Timers

Value

Current

Set

Hi Battery Voltage:

SET

Low Battery voltage:

SET

Low Output voltage:

SET

ATTENTION!To change VOLTAGE value you need to enter four digit. For example to change battery boost voltage with 56,00V you need to enter 5600 in the box. To change CURRENT value you need to enter minimum two digit. For example to change max. battery current with 25,5A you need to enter 255 in the box.

CAUTION: The change of these values is not recommended. It can lead to failure of the system. Consultation with IPS in advance is highly recommended before making any changes to the system's settings.

e. Timers parameters:

IPS

Overview

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Mode

Voltage

Current

Test

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Value

Current

Set

After mains failure:

Hour

Min

SET

Additional boost timer:

Hour

Min

SET

Maximum boost timer:

Hour


Min

SET

ATTENTION!To change VOLTAGE value you need to enter four digit. For example to change battery boost voltage with 56,00V you need to enter 5600 in the box. To change CURRENT value you need to enter minimum two digit. For example to change max. battery current with 25,5A you need to enter 255 in the box.

CAUTION: The change of these values is not recommended. It can lead to failure of the system. Consultation with IPS in advance is highly recommended before making any changes to the system's settings.

- ❖ In the Network Configuration menu you can change all network settings which are needed for your network.



Overview

System Monitoring

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Network Configuration

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Interface Update

Board Configuration

This page allows the configuration of the board's network settings.

Enter the new settings for the board below:

MAC Address:

00:04:A3:00:00:03

☐ Enable DHCP

IP Address:

169.254.54.194

Gateway:

192.168.2.1

Subnet Mask:

255.255.0.0

Primary DNS:

192.168.2.3

Secondary DNS:

0.0.0.0

Save Config

CAUTION: Incorrect settings may cause the board to lose network connectivity.
Recovery options will be provided on the next page.