

NIMAC NETWORK MONITORING SYSTEM (“NIMAC NMS”)

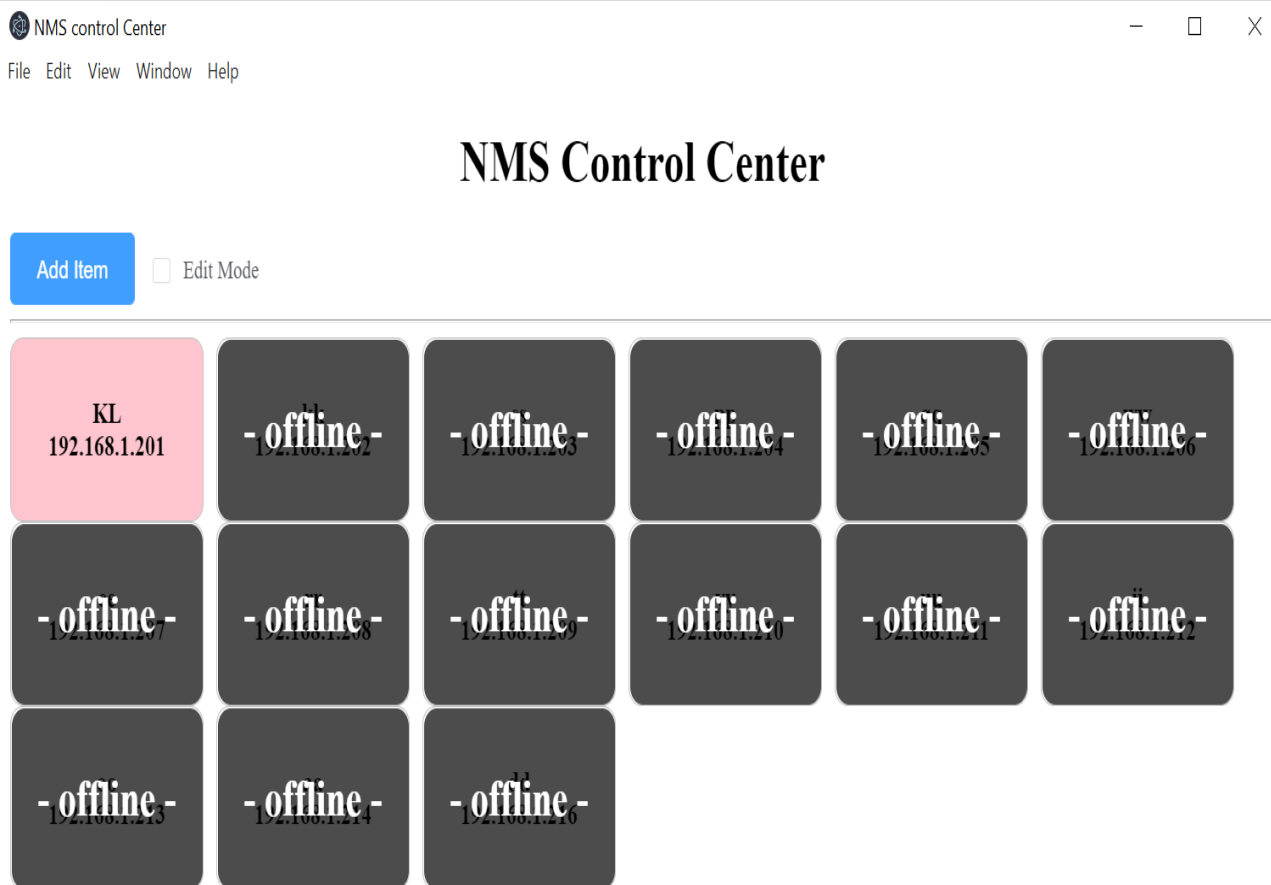
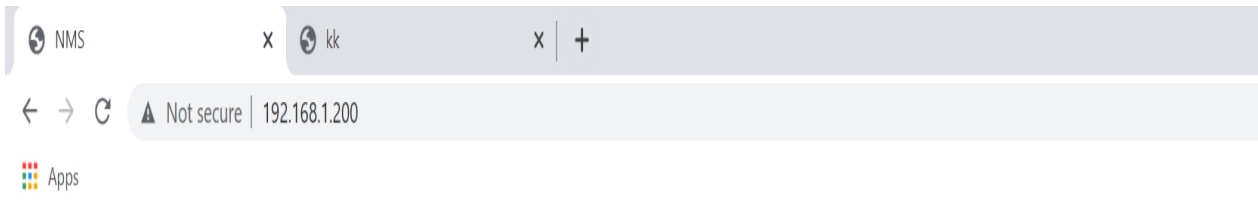


FIGURE 1.1 – NMS Main Page

- 1) This is the main page listing all the substations that connects with NIMAC NMS.
- 2) Station with alarming condition will be blinking with colour box changed to “pink” (as shown in FIGURE 1.1).



Nimac Monitoring System

Last Login: admin-a, Time: 2021-02-08 09:23:31

Login

FIGURE 1.2 – Login Page

- 1) This is the login page after clicking on the desired substation for viewing.
- 2) There will be two (2) types of logins, ie **User Login & Admin Login**.
 - **User Login** can only view the data, but cannot make changes;
 - **Admin Login** can both view the data and make changes of parameter settings or downloads.
- 3) There are up to 5 admin accounts can be created.

kk AC Input Language: English admin-a Sign out

AC Input

Measured data

Ua	235.07 V	Ub	241.21 V	Uc	234.36 V	Frequency	50.05 HZ	Active power	4.63 kW
Ia	0 A	Ib	23.37 A	Ic	0 A	Power factor	0.82	Active energy	130.2 kWh

DC Output

Status

Ua loss	NORM	Ia current high	NORM	Ub high	NORM	Uc low	NORM	frequency low	NORM
Ua low	NORM	Ub loss	NORM	Ib current high	NORM	Uc high	NORM	frequency high	NORM
Ua high	NORM	Ub low	NORM	Uc loss	NORM	Ic current high	NORM		

Relay

Adjust

AC voltage high level	280 V	input	set	AC phase loss level	60 V	input	set	frequency high level	52 HZ	input	set
AC voltage low level	180 V	input	set	AC over current level	99 A	input	set	frequency low level	48 HZ	input	set

System

Event Record

Calibration

Gain of Ua	1	input	set	offset of Ub	0 V	input	set	Gain of Ic	1	input	set
offset of Ua	0 V	input	set	Gain of Ib	1	input	set	offset of Ic	0 A	input	set
Gain of Ia	1	input	set	offset of Ib	0 A	input	set	CT	2000	input	set
offset of Ia	0 A	input	set	Gain of Uc	1	input	set	AC type	Three-phase	Three-ph	set
Gain of Ub	1	input	set	offset of Uc	0 V	input	set				

Meter

Figure 1.3 – Page on the AC Input Parameters

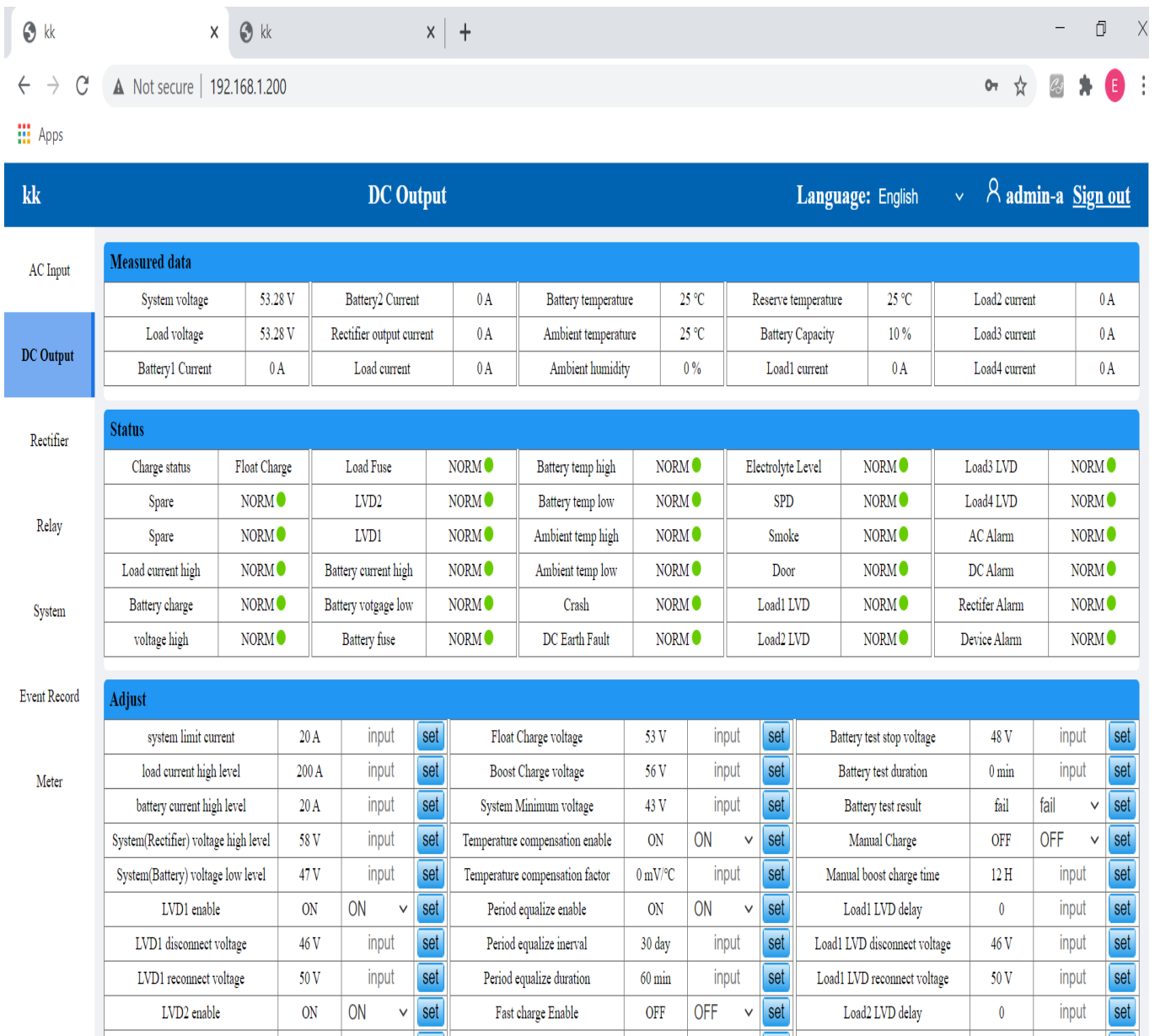
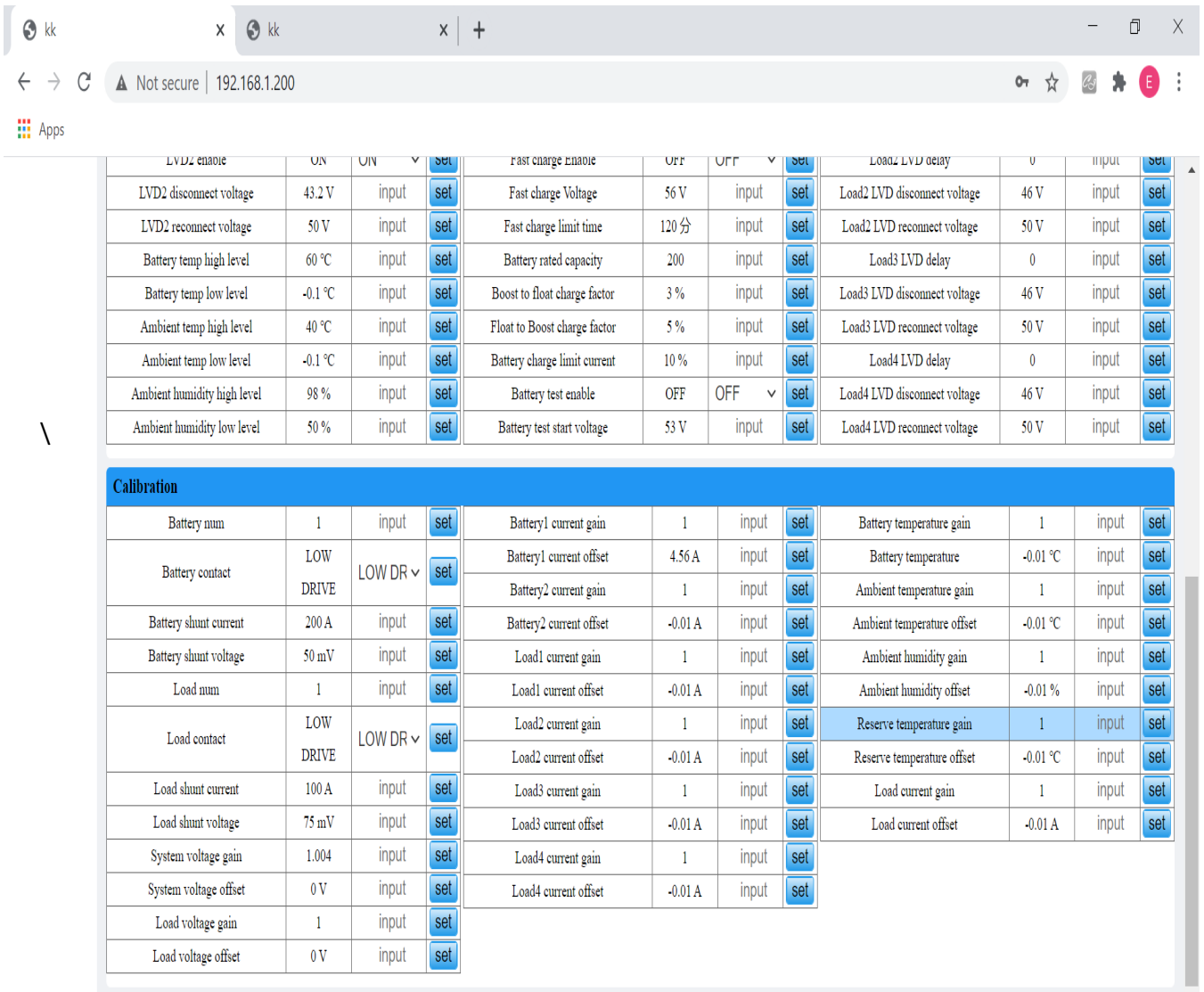


FIGURE 1.4a – Page on DC Output of SMR

- 1) Details on metering and status of the DC Output.
- 2) The changes on parameter, adjustment and calibration can be made only by **Admin**.
- 3) Alarming condition will be notified via “RED” LED and the particular icon page wording (e.g. Rectifier) turns into RED colour



LVD2 enable	ON	ON	set	Fast charge Enable	OFF	OFF	set	Load2 LVD delay	0	input	set
LVD2 disconnect voltage	43.2 V	input	set	Fast charge Voltage	56 V	input	set	Load2 LVD disconnect voltage	46 V	input	set
LVD2 reconnect voltage	50 V	input	set	Fast charge limit time	120 分	input	set	Load2 LVD reconnect voltage	50 V	input	set
Battery temp high level	60 °C	input	set	Battery rated capacity	200	input	set	Load3 LVD delay	0	input	set
Battery temp low level	-0.1 °C	input	set	Boost to float charge factor	3 %	input	set	Load3 LVD disconnect voltage	46 V	input	set
Ambient temp high level	40 °C	input	set	Float to Boost charge factor	5 %	input	set	Load3 LVD reconnect voltage	50 V	input	set
Ambient temp low level	-0.1 °C	input	set	Battery charge limit current	10 %	input	set	Load4 LVD delay	0	input	set
Ambient humidity high level	98 %	input	set	Battery test enable	OFF	OFF	set	Load4 LVD disconnect voltage	46 V	input	set
Ambient humidity low level	50 %	input	set	Battery test start voltage	53 V	input	set	Load4 LVD reconnect voltage	50 V	input	set

Calibration											
Battery num	1	input	set	Battery1 current gain	1	input	set	Battery temperature gain	1	input	set
Battery contact	LOW DRIVE	LOW DR	set	Battery1 current offset	4.56 A	input	set	Battery temperature	-0.01 °C	input	set
Battery shunt current	200 A	input	set	Battery2 current gain	1	input	set	Ambient temperature gain	1	input	set
Battery shunt voltage	50 mV	input	set	Battery2 current offset	-0.01 A	input	set	Ambient temperature offset	-0.01 °C	input	set
Load num	1	input	set	Load1 current gain	1	input	set	Ambient humidity gain	1	input	set
Load contact	LOW DRIVE	LOW DR	set	Load1 current offset	-0.01 A	input	set	Ambient humidity offset	-0.01 %	input	set
Load shunt current	100 A	input	set	Load2 current gain	1	input	set	Reserve temperature gain	1	input	set
Load shunt voltage	75 mV	input	set	Load2 current offset	-0.01 A	input	set	Reserve temperature offset	-0.01 °C	input	set
System voltage gain	1.004	input	set	Load3 current gain	1	input	set	Load current gain	1	input	set
System voltage offset	0 V	input	set	Load3 current offset	-0.01 A	input	set	Load current offset	-0.01 A	input	set
Load voltage gain	1	input	set	Load4 current gain	1	input	set				
Load voltage offset	0 V	input	set	Load4 current offset	-0.01 A	input	set				

FIGURE 1.4b – Page on DC Output of SMR

The changes on parameter, adjustment and calibration can be made only by **Admin**.

Browser: Not secure | 192.168.1.200

Language: English | admin-a Sign out

Rectifier

AC Input **overview**

Rectifier number	2 台	
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DC Output

Rectifier limit current	55 A	input	set	Power turn off at	30 %	input	set	Module Base Num	0	input	set
Rectifier high voltage	58 V	input	set	Power turn on at	80 %	input	set	Power saving test	OFF	OFF	set
Power saving Enable	OFF	OFF	set	Rotate period	24 Hour	input	set	Module Number	0	input	set

Rectifier

module#2

Relay

Output voltage	0 V	Fan1 speed	0	Rectifier temp	0 °C	Rectifier SN	0
Output current	0 A	Fan2 speed	0	Software version	1000		

System

Rectifier Online	Online ●	High Temp protect	norm ●	Retain	norm ●	alarm status	norm ●
High voltage protect	norm ●	Short circuit protect	norm ●	Fan alarm	alarm ●	Current limit	norm ●
Retain	norm ●	Offline	norm ●	Rectifier off normal	norm ●		

Event Record

Rectifier control	ON	ON	set
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Meter

module#3

Output voltage	53.2 V	Fan1 speed	500	Rectifier temp	0 °C	Rectifier SN	0
Output current	0 A	Fan2 speed	0	Software version	1000		

Rectifier Online	Online ●	High Temp protect	norm ●	Retain	norm ●	alarm status	norm ●
High voltage protect	norm ●	Short circuit protect	norm ●	Fan alarm	norm ●	Current limit	norm ●
Retain	norm ●	Offline	norm ●	Rectifier off normal	norm ●		

Rectifier control	ON	ON	set
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FIGURE 1.5 – Details on Rectifier Module

- No. of Rectifier Module connected will be shown as Module 1, 2, 3 etc.

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Apps

kk **Relay** Language: English admin-a Sign out

AC Input

Status					
Relay1 alarm status	OK	Relay3 alarm status	OK	Relay5 alarm status	FT
Relay2 alarm status	OK	Relay4 alarm status	OK	Relay6 alarm status	OK

DC Output

Adjust

Rectifier	Relay1 alarm type	Battery Voltage Low	Battery Voltage Low	set	Rectifier Fail	Emergency alarm	Emergency alarm	set	Alarm23	CLOSE	CLOSE	set
	Relay1 output set	OPEN	OPEN	set	Rectifier Voltage High	Non emergency alarm	Non emergency alarm	set	Alarm24	CLOSE	CLOSE	set
Relay	Relay2 alarm type	CLOSE	CLOSE	set	Battery Voltage Low	Non emergency alarm	Non emergency alarm	set	Alarm25	CLOSE	CLOSE	set
					LVD1 Alarm	Emergency alarm	Emergency alarm	set	Alarm26	CLOSE	CLOSE	set
System	Relay2 output set	CLOSE	CLOSE	set	Battery Voltage High	Non emergency alarm	Non emergency alarm	set	Alarm27	CLOSE	CLOSE	set
					LVD2 Alarm	Emergency alarm	Emergency alarm	set	Alarm28	CLOSE	CLOSE	set
Event Record	Relay3 alarm type	CLOSE	CLOSE	set	Battery Current Limit	CLOSE	CLOSE	set	Alarm29	CLOSE	CLOSE	set
					Rectifier Current Limit	Emergency alarm	Emergency alarm	set	Alarm30	CLOSE	CLOSE	set
Meter	Relay3 output set	CLOSE	CLOSE	set	Battery MCB Trip	Emergency alarm	Emergency alarm	set	Alarm31	CLOSE	CLOSE	set
					Load MCB Trip	Emergency alarm	Emergency alarm	set	Alarm32	CLOSE	CLOSE	set
Relay4 alarm type	CLOSE	CLOSE	CLOSE	set	Battery Temp	CLOSE	CLOSE	set	DI1 type (Door)	OPEN	OPEN	set
					Room Temp	CLOSE	CLOSE	set	DI2 type (Smoke)	OPEN	OPEN	set
Relay4 output set	CLOSE	CLOSE	CLOSE	set	Door	CLOSE	CLOSE	set	DI3 type (SPD)	OPEN	OPEN	set
					Smoke	CLOSE	CLOSE	set	DI4 type (Water)	OPEN	OPEN	set
Relay5 alarm type	Emergency alarm	Emergency alarm	Emergency alarm	set	SPD	CLOSE	CLOSE	set	DI5 type (DC Earth Fault)	OPEN	OPEN	set
					SPD	CLOSE	CLOSE	set	DI6 type (Crash)	OPEN	OPEN	set

FIGURE 1.6 – Detail/Status on Relay Status

The adjustment can be made only by **Admin**.

kk 192.168.1.200 x x +

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Apps

AC Input

undefined

Hardware version	8	0-00-00 00:01:00	set
Software version	0		

DC Output

Adjust

Device SN	0	input	set	Buzzer	ON	ON	set	RS232 parity	Even	Even	set
LCD language	English	English	set	Device address	33	input	set	Network protocol	--	TCP	set
LCD backlight delay	0 Min	input	set	RS485 baudrate	2400	2400	set	Local IP	0	input	set
Touch screen language	English	English	set	RS485 parity	--	None	set	Subnet mask	0	input	set
Touch screen save delay	0 Min	input	set	RS232 baudrate	2400	2400	set	Default gateway	0	input	set

System

Event Record

Meter

System

Password

user: admin-a

Password:

Confirm:

Set Password

Set UnitName

UnitName: kk

Set UnitName

FIGURE 1.7 – System page

to set up for Substation Name & Software version Installation

KL192.168.1.201 x +

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KL192.168.1.201 **Event Record** Language: English ▼ admin-a [Sign out](#)

AC Input [Download csv](#) [Refresh](#) Offline Non Urgent Urgent Total 122 items ← 1 2 3 4 5 6 7 → Go to

	SN	Devie	Event	Value	Start time	End time	Alarm level
DC Output	1	DEV_DC	DC volt low	43.11V	2021-03-03 18:07:41	--	●
	2	DEV_DC	Battery over current	250.82A	2021-03-03 18:07:38	--	●
Rectifier	3	DEV_DC	DC volt low	43.2V	2021-03-03 17:27:04	--	●
	4	DEV_DC	Battery over current	250.82A	2021-03-03 17:27:01	--	●
	5	DEV_DC	DC volt low	43.24V	2021-03-03 17:22:41	--	●
Relay	6	DEV_DC	Battery over current	250.82A	2021-03-03 17:22:38	--	●
	7	DEV_DC	DC volt low	42.44V	2021-03-03 17:07:48	--	●
System	8	DEV_DC	Battery over current	66.94A	2021-03-03 17:06:37	--	●
	9	DEV_DC	Battery over current	218.38A	2021-02-25 15:12:48	--	●
	10	DEV_DC	Battery over current	207.29A	2021-02-25 10:53:35	--	●
Event Record	11	DEV_DC	Battery over current	73.07A	2021-02-25 10:53:12	--	●
	12	DEV_DC	DC volt low	43.1V	2021-02-25 10:26:23	2021-02-25 10:49:31	●
Meter	13	DEV_DC	Battery over current	250.82A	2021-02-25 10:26:21	2021-02-25 10:49:25	●
	14	DEV_DC	DC volt low	43.54V	2021-02-25 10:26:07	2021-02-25 10:26:14	●
	15	DEV_DC	Battery over current	73.19A	2021-02-25 10:26:00	2021-02-25 10:26:07	●
	16	DEV_DC	Battery over current	220.42A	2021-02-17 14:58:28	--	●
	17	DEV_DC	Battery over current	74.54A	2021-02-17 14:58:02	--	●
	18	DEV_DC	DC volt low	43.3V	2021-02-17 14:58:00	2021-02-17 14:58:05	●
	19	DEV_DC	DC volt low	46.17V	2021-02-17 14:46:43	2021-02-17 14:50:18	●
	20	DEV_AC	Mains Fail	0V	2021-02-17 14:45:43	--	●

FIGURE 1.8 – Event logs indicating the start and end time on the particular alarming event & for downloading if required

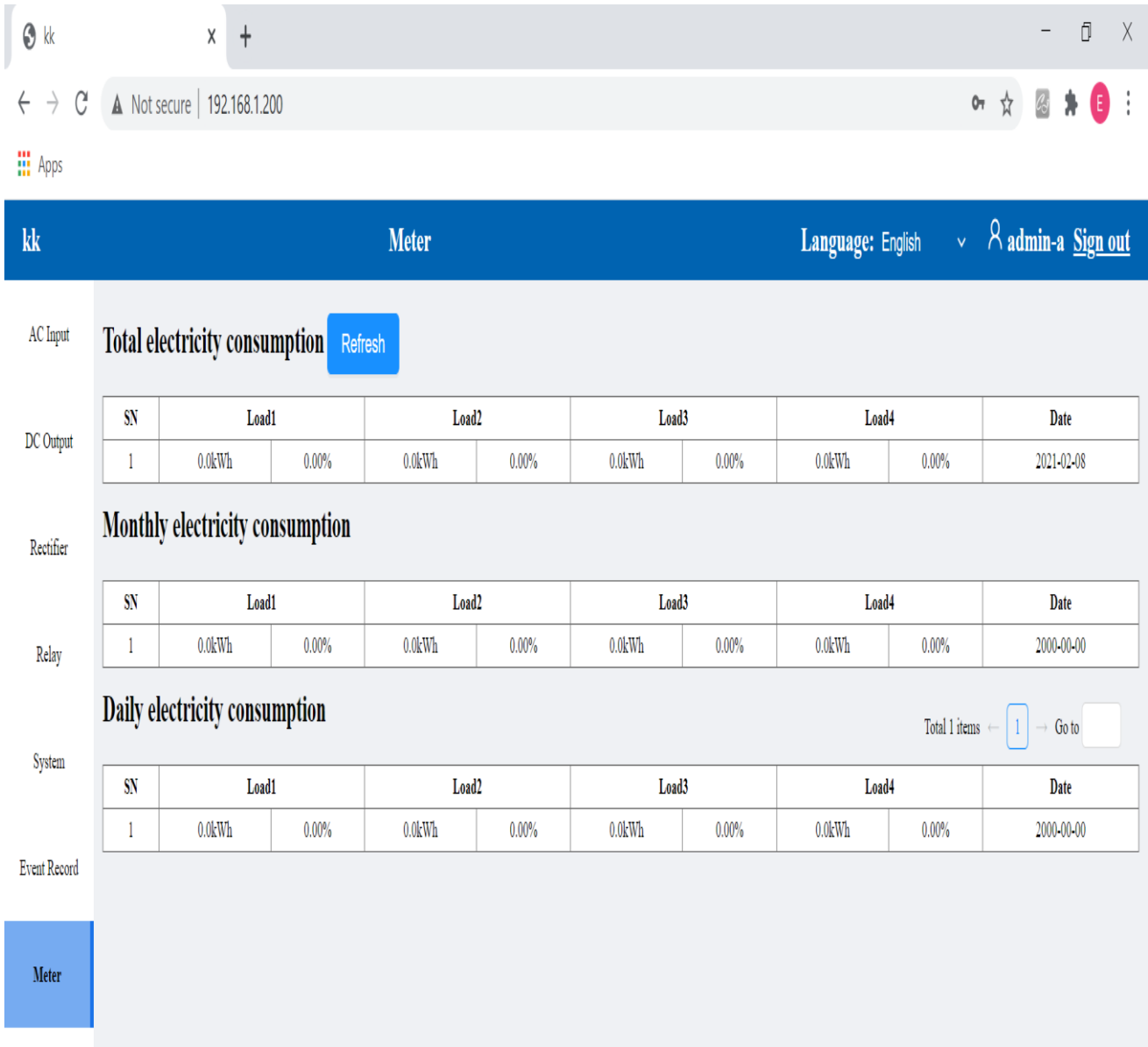


FIGURE 1.9 – Details on Electricity Consumption of the Rectifier

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