# NIMAC NETWORK MONITORING SYSTEM
# ("NIMAC NMS")

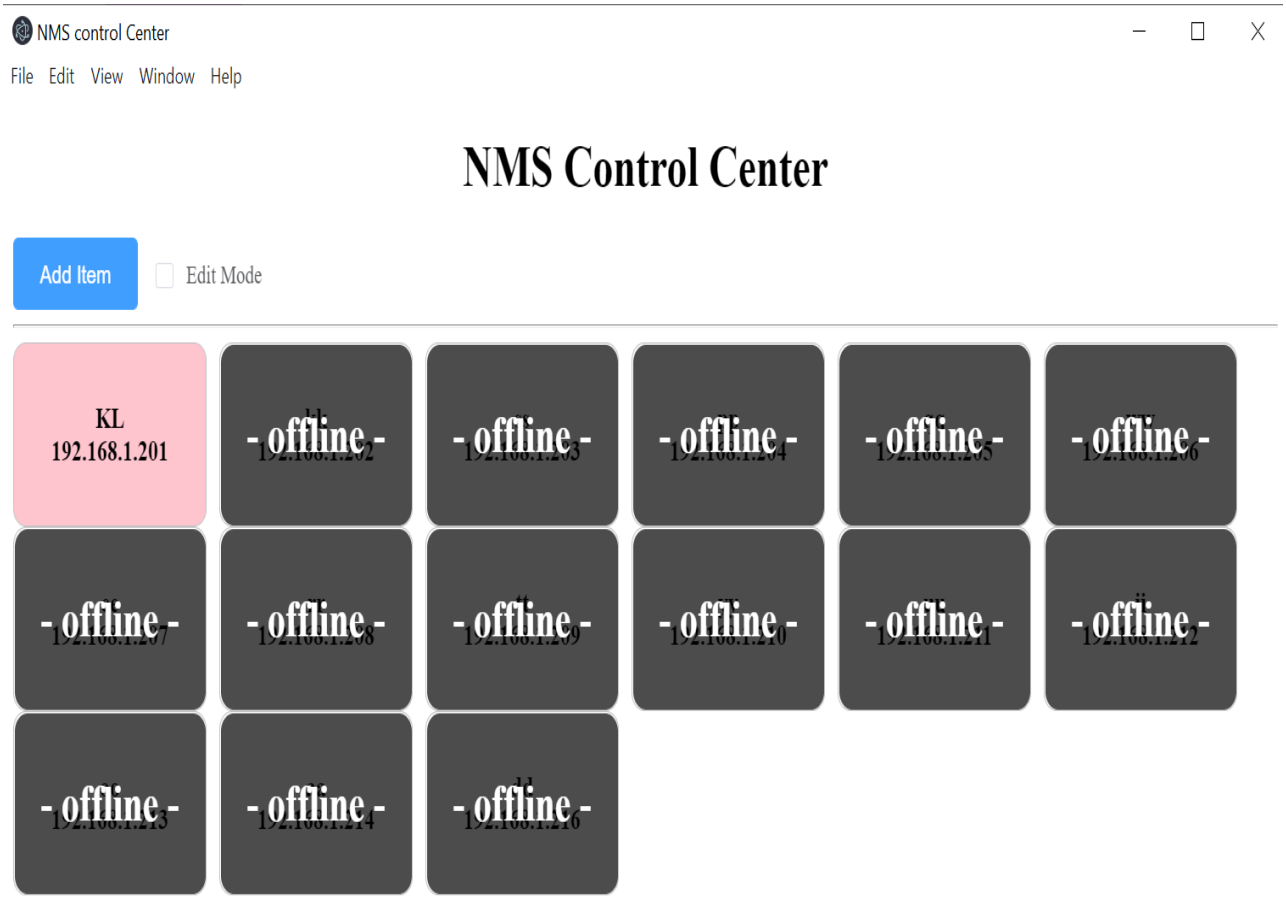



*FIGURE 1.1 – NMS Main Page*

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*).

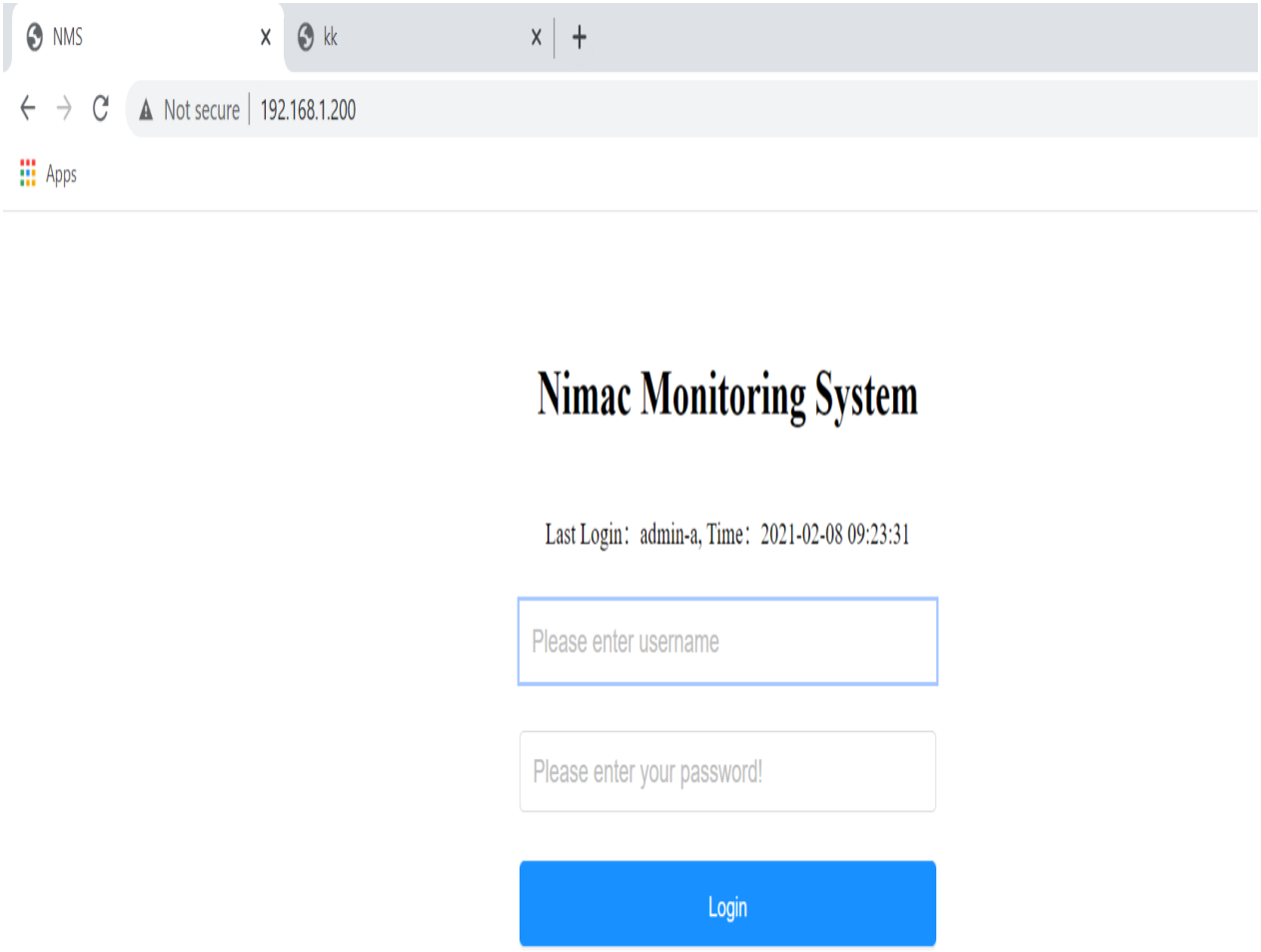



*FIGURE 1.2 – Login Page*

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.

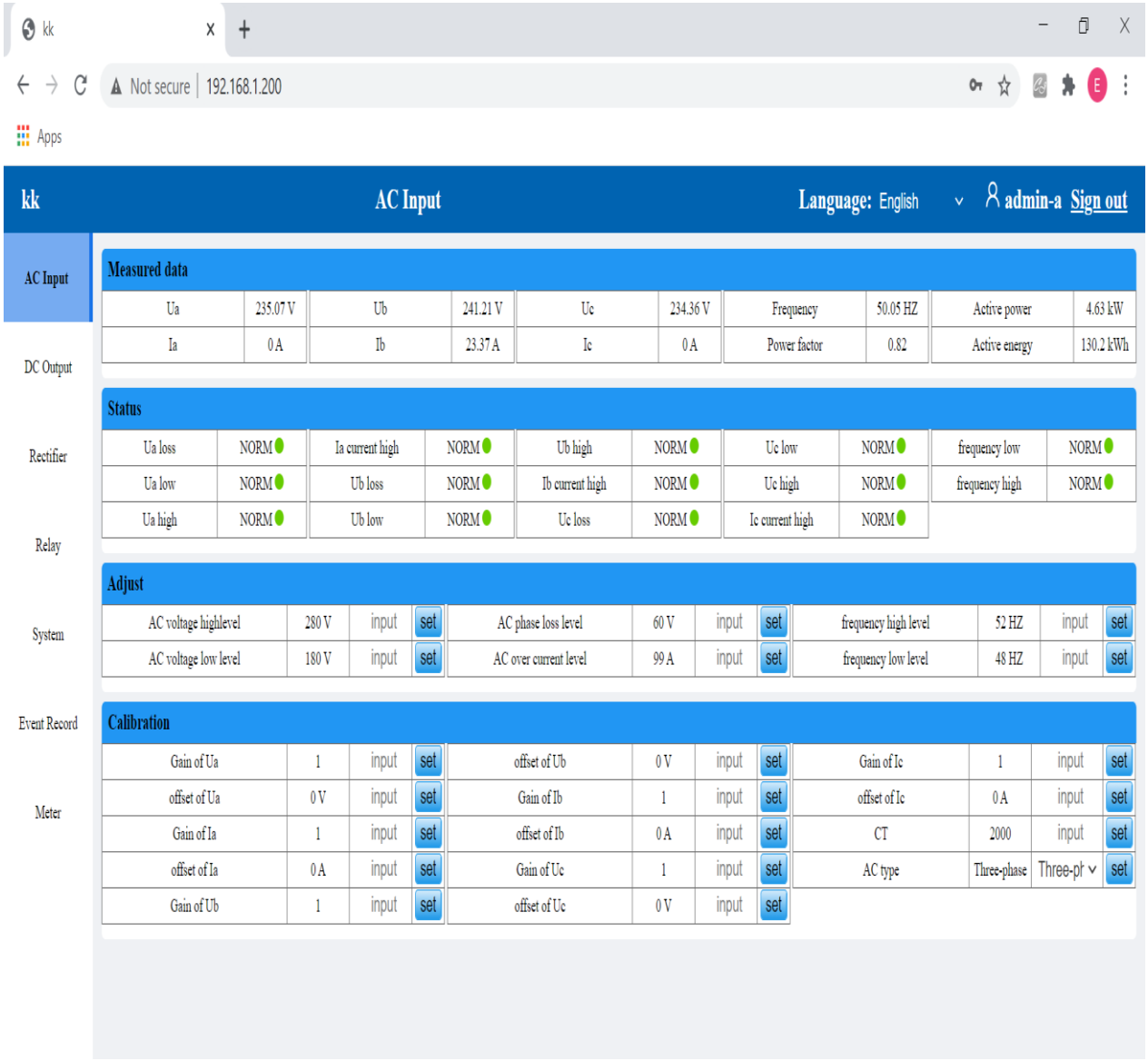



*Figure 1.3 – Page on the AC Input Parameters*

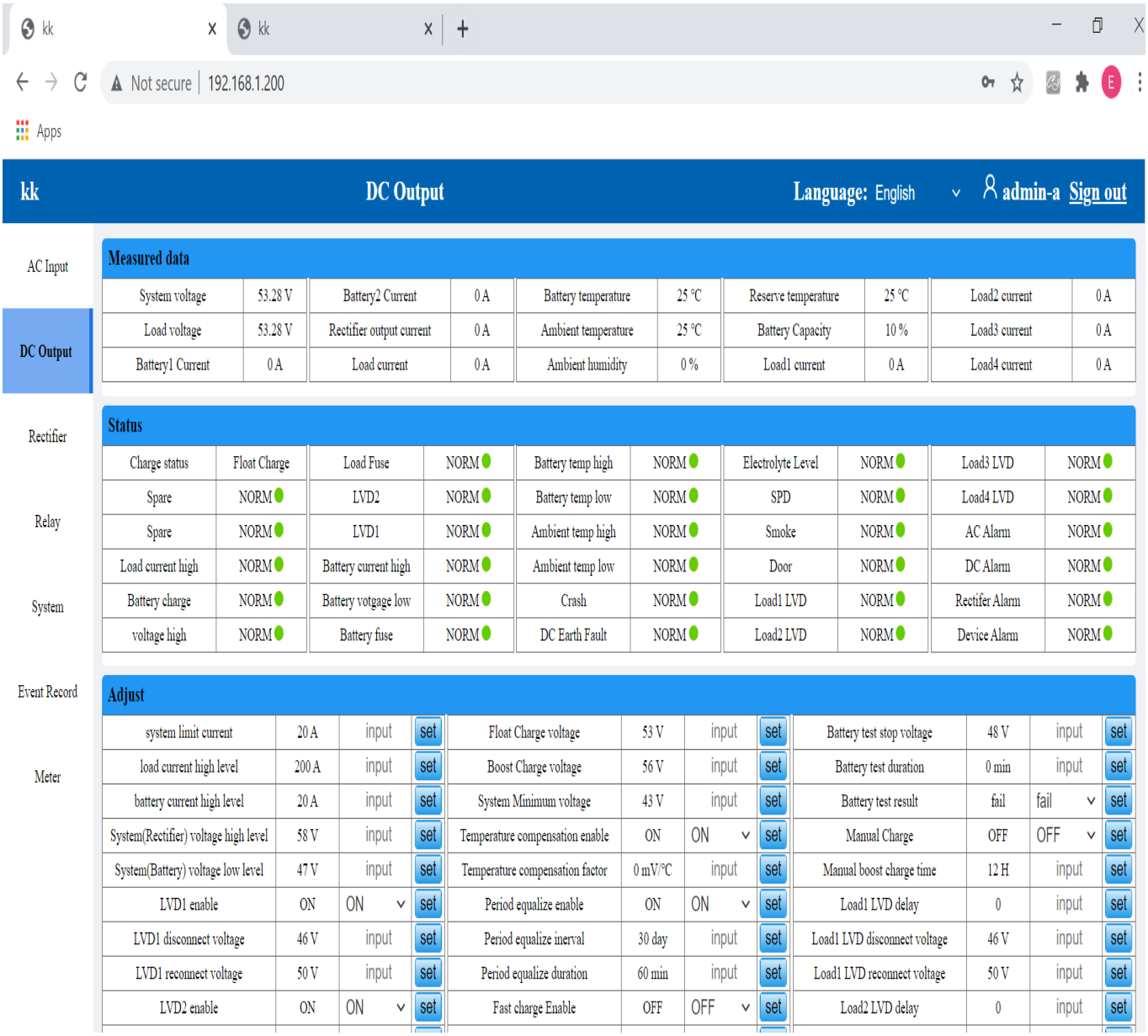
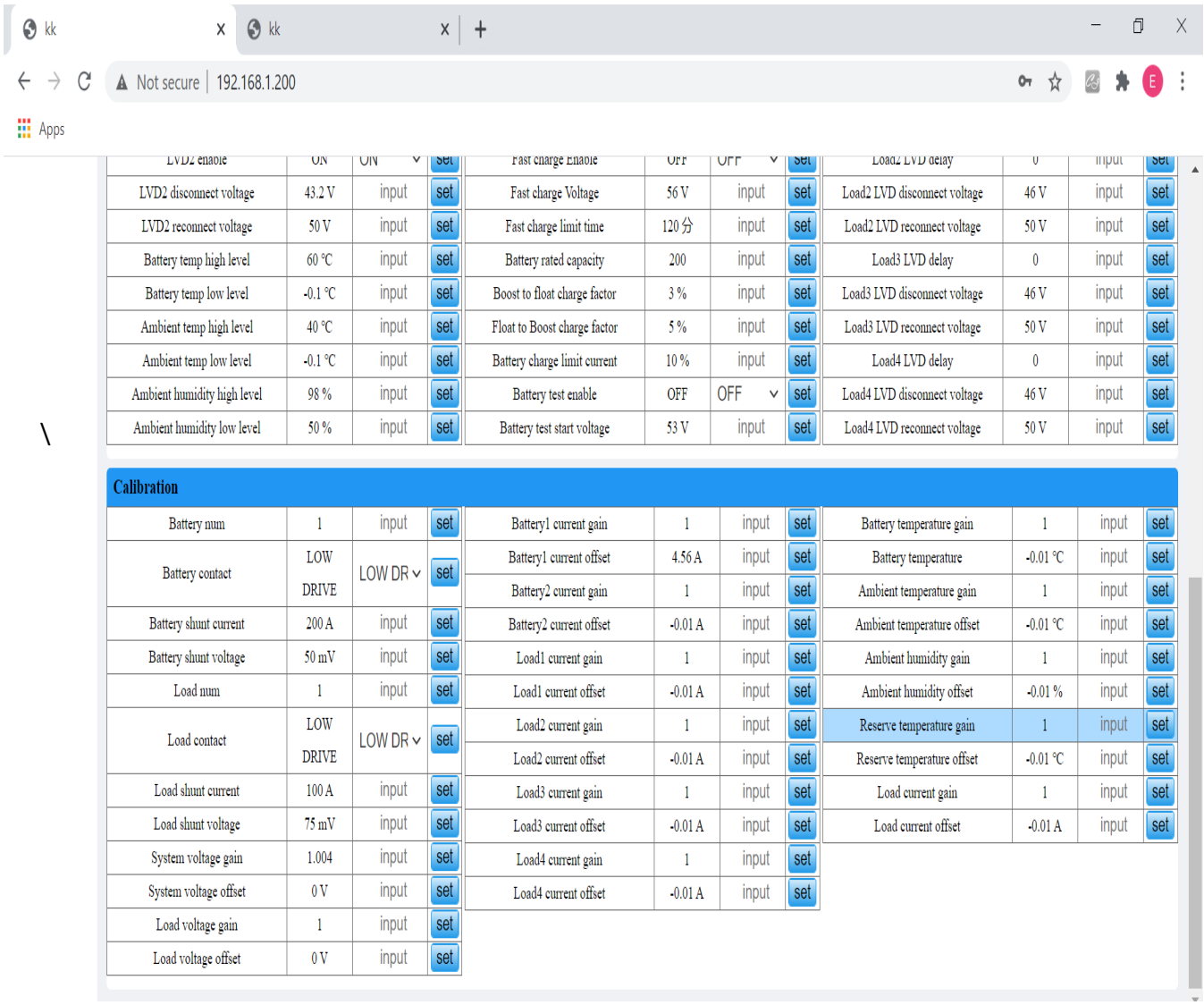



*FIGURE 1.4a – Page on DC Output of SMR*

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 partciular 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 ℃ | input | set | Battery rated capacity | 200 | input | set | Load3 LVD delay | 0 | input | set |
| Battery temp low level | -0.1 ℃ | input | set | Boost to float charge factor | 3 % | input | set | Load3 LVD disconnect voltage | 46 V | input | set |
| Ambient temp high level | 40 ℃ | input | set | Float to Boost charge factor | 5 % | input | set | Load3 LVD reconnect voltage | 50 V | input | set |
| Ambient temp low level | -0.1 ℃ | 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 ℃ | input | set |
| | | | | Battery2 current gain | 1 | input | set | Ambient temperature gain | 1 | input | set |
| Battery shunt current | 200 A | input | set | Battery2 current offset | -0.01 A | input | set | Ambient temperature offset | -0.01 ℃ | input | set |
| Battery shunt voltage | 50 mV | input | set | Load1 current gain | 1 | input | set | Ambient humidity gain | 1 | input | set |
| Load num | 1 | input | set | Load1 current offset | -0.01 A | input | set | Ambient humidity offset | -0.01 % | input | set |
| Load contact | LOW DRIVE | LOW DR | set | Load2 current gain | 1 | input | set | Reserve temperature gain | 1 | input | set |
| | | | | Load2 current offset | -0.01 A | input | set | Reserve temperature offset | -0.01 ℃ | input | set |
| Load shunt current | 100 A | input | set | Load3 current gain | 1 | input | set | Load current gain | 1 | input | set |
| Load shunt voltage | 75 mV | input | set | Load3 current offset | -0.01 A | input | set | Load current offset | -0.01 A | input | set |
| System voltage gain | 1.004 | input | set | Load4 current gain | 1 | input | set | | | | |
| System voltage offset | 0 V | input | set | Load4 current offset | -0.01 A | input | set | | | | |
| Load voltage gain | 1 | input | set | | | | | | | | |
| Load voltage offset | 0 V | input | set | | | | | | | | |

*FIGURE 1.4b – Page on DC Output of SMR*

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

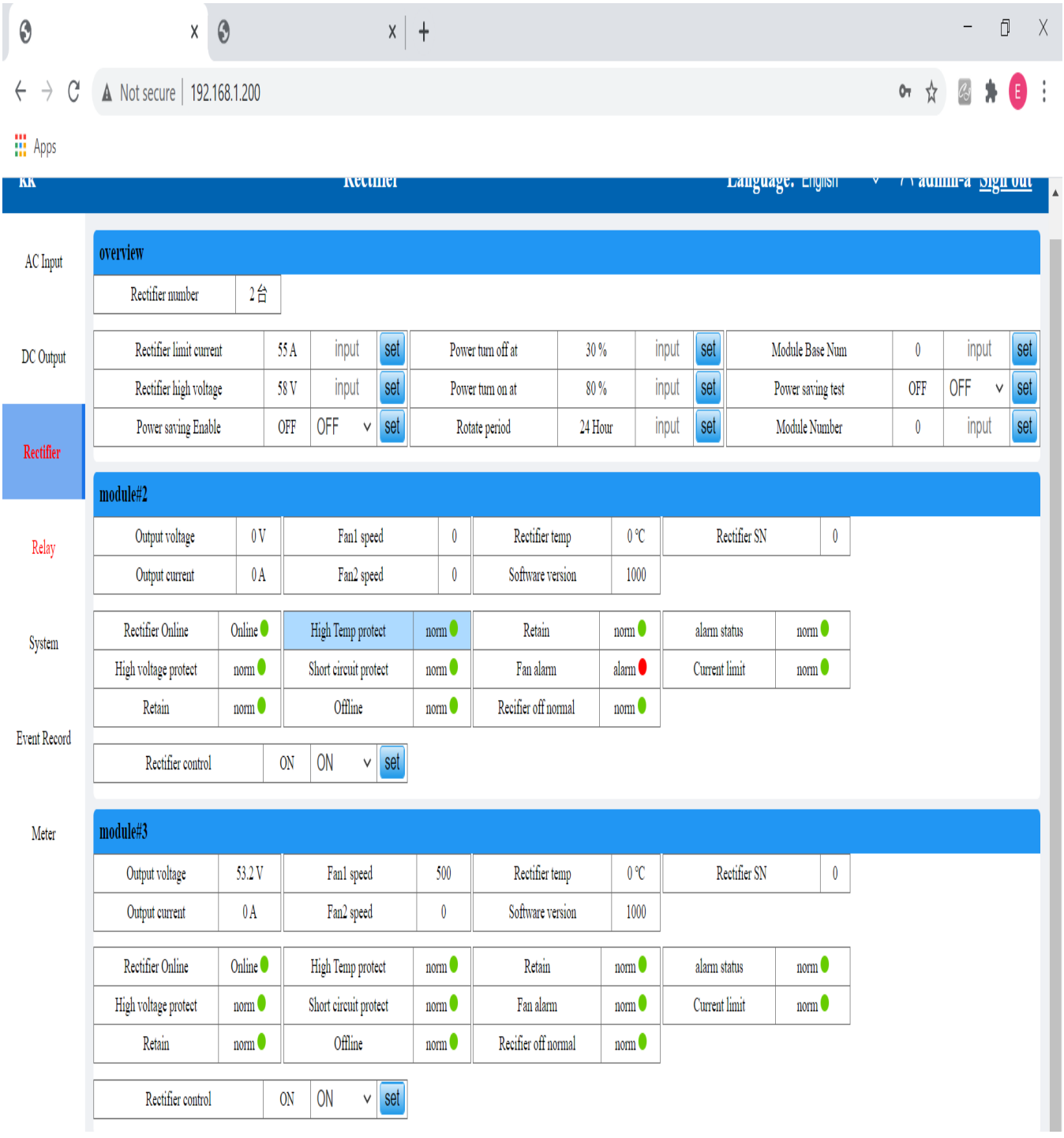



*FIGURE 1.5 – Details on Rectifier Module*

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

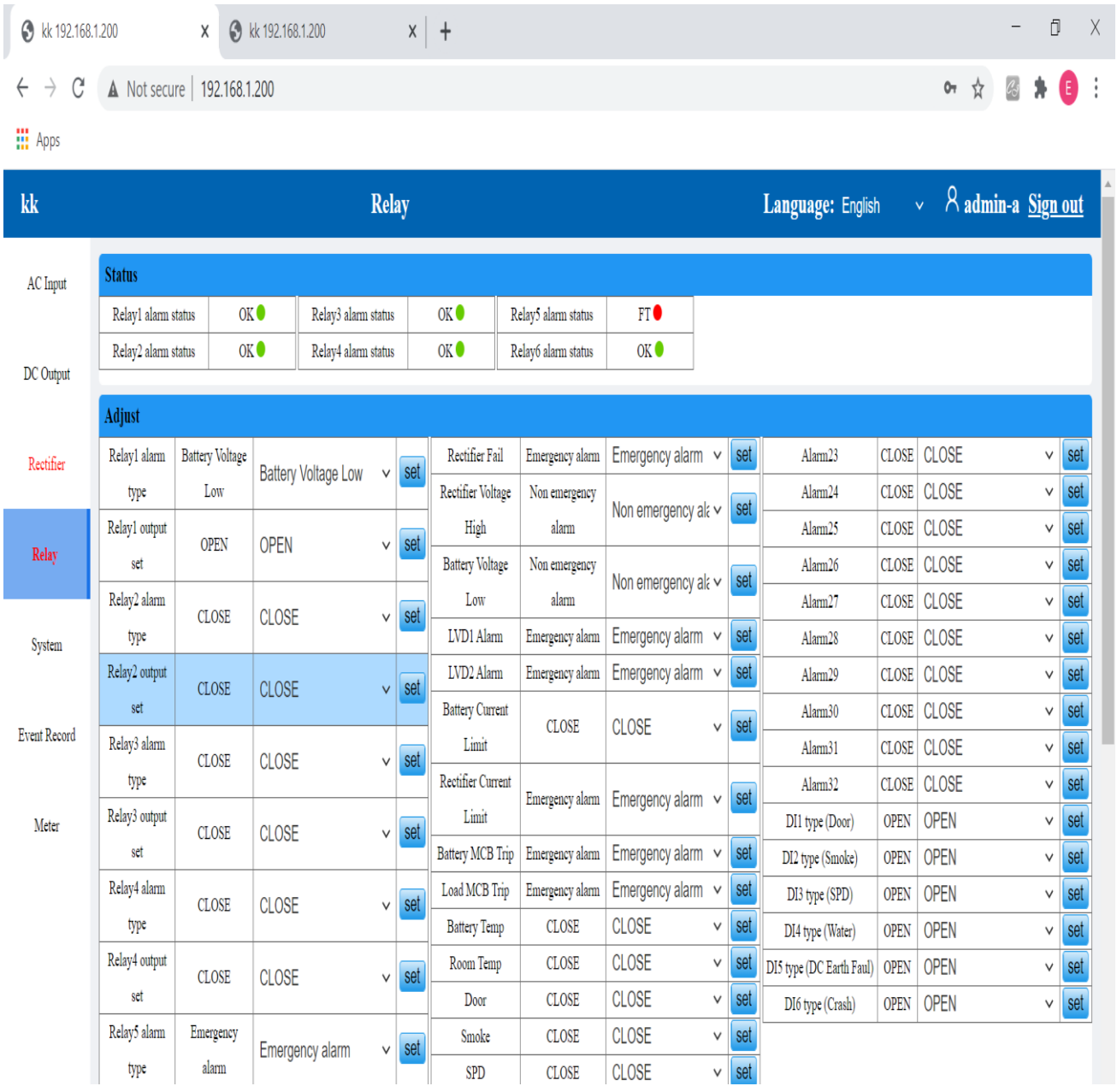



*FIGURE 1.6 – Detail/Status on Relay Status*

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

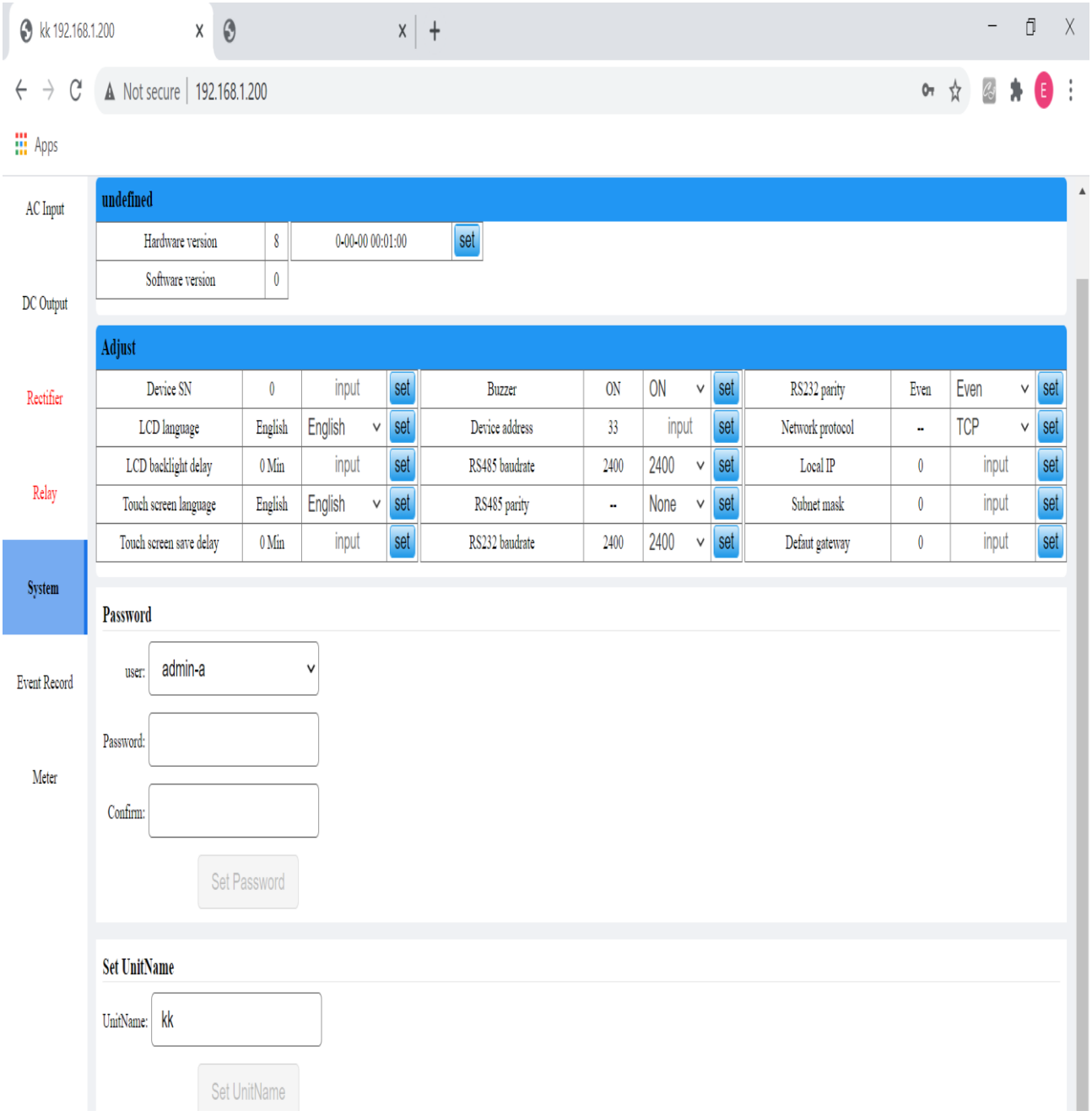
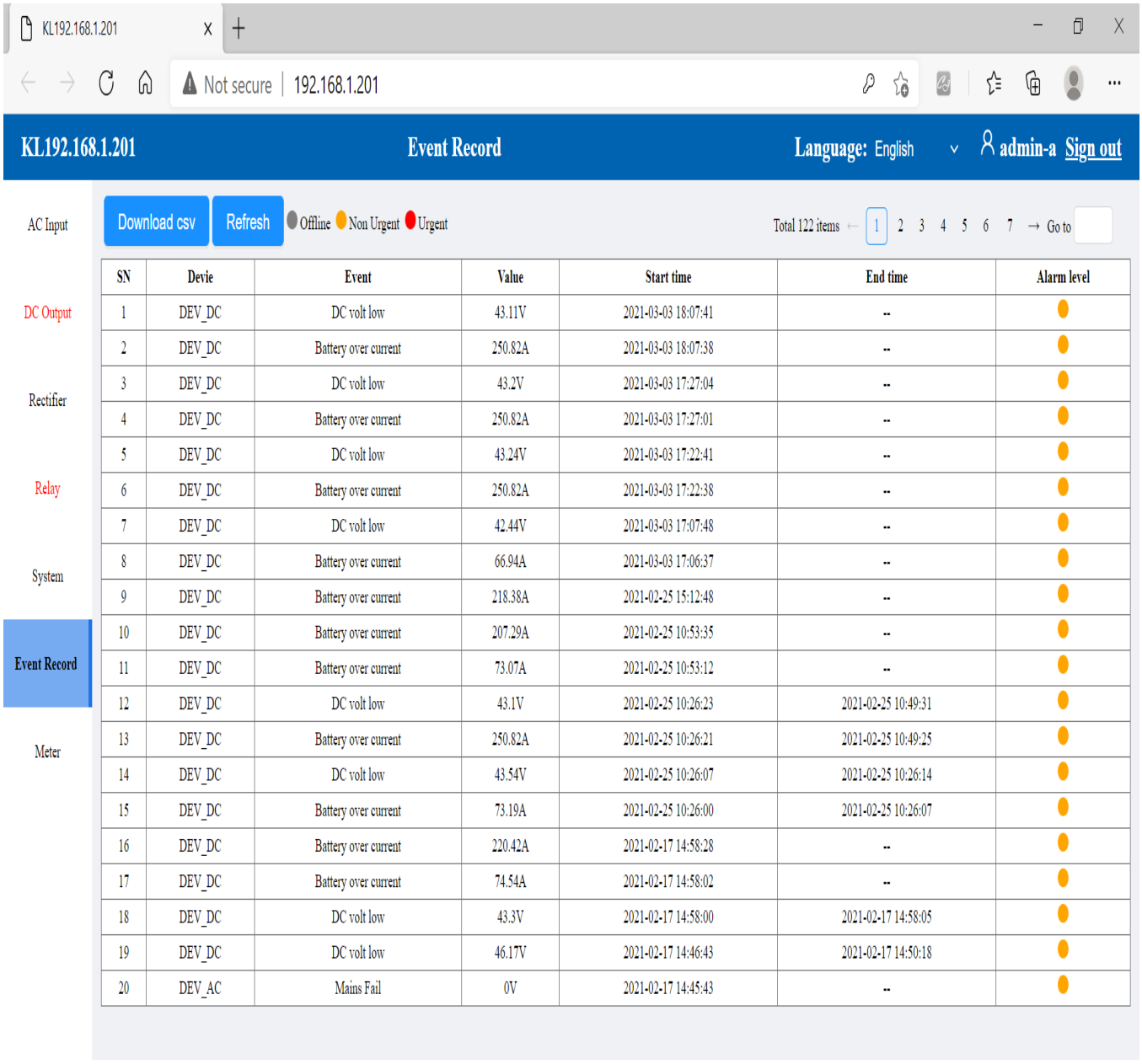



*FIGURE 1.7 – System page*

*to set up for Substation Name & Software version Installation*




| SN | Devie | Event | Value | Start time | End time | Alarm level |
|---|---|---|---|---|---|---|
| 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 | -- | |
| 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 | -- | |
| 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 | -- | |
| 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 | -- | |
| 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 | |
| 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*

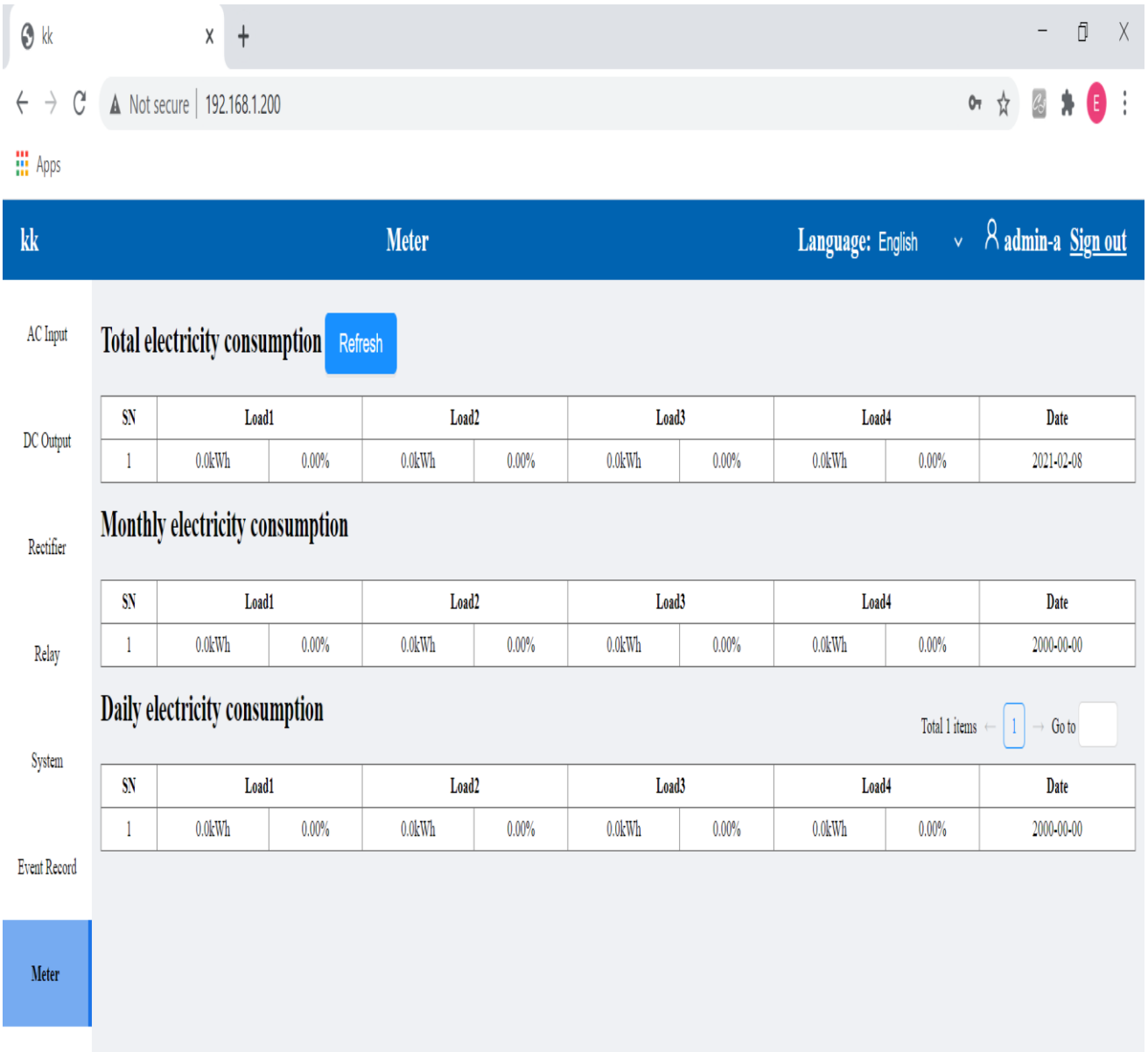



*FIGURE 1.9 – Details on Electricity Consumption*

*of the Rectifier*

Click / Scan Here

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