

Inview S / Slot Start-up procedure



Scope

This procedure covers the start-up of Inview S and Inview S Slot controller in the Bravo 10, Sierra 10, Sierra 25 and Flexa 25 systems.

Hardware connections

In Bravo, Sierra and Flexa systems, the Inview S and Measure Box Battery has to be connected as per the following:

1. Connect “RJ45” port in shelf and “CE+T COM” port in Inview S using RJ45 straight cable.
2. Connect “CAN / iso RS485” port in Inview S and “CAN1” port in Measure Box Battery using RJ45 straight cable.
3. Connect 12 V from auxiliary power supply kit to Inview S and Measure Box Battery.

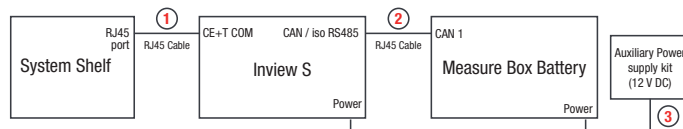


Figure 1: Hardware connections with Inview S

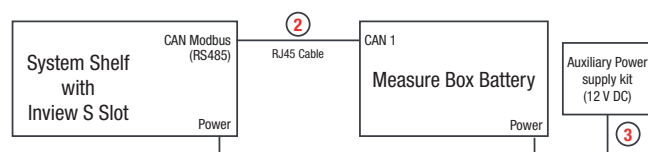


Figure 2: Hardware connections with Inview S Slot

Inview S Configuration

A) Startup

By default, Inview S and Inview S slot is programmed for Single phase, 50 Hz system. So, it is recommended to configure based upon the system design.

1. Insert one module in each phase and apply a AC or DC source. Once the system is powered up, the Inview S / Slot will be ready for operation.

(Note: In the multi phase system, make sure the phase sequence is connected correctly.)

2. Note the software version and IP address in Inview S / Slot LCD interface. (Figure 3)
3. Establish Inview S / Slot web interface by connecting RJ45 straight cable between “ETH” port in Inview S / Slot and “ETH” port in the laptop. In the laptop, set the network connection (TCP/IPv4) as
 - IP: 10.250.250.10
 - Subnet mask: 255.0.0.0
4. Open the web browser and enter the IP address, which is present in the LCD screen - Information page (Default IP is “10.250.250.1”).
5. Login as **admin**, enter the default password “1234” and it displays the home screen like Figure 4.



Figure 3: Inview S and Inview S Slot - LCD display - Info page

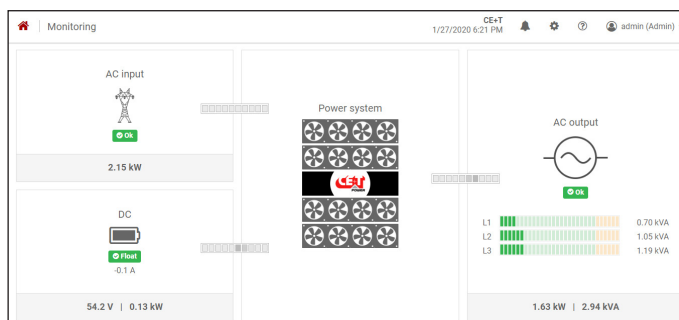


Figure 4: Inview S - Home screen

B) Basic settings

1. **Date and Time:** Set the date and time in “Time page” (Administration (⚙) > Parameters > Supervisor > Time) and select Local or NTP time in Time management (Administration (⚙) > Maintenance).
2. **Topology:** Based upon the system design, select the Topology in the Power page (Administration (⚙) > Parameters > Power).

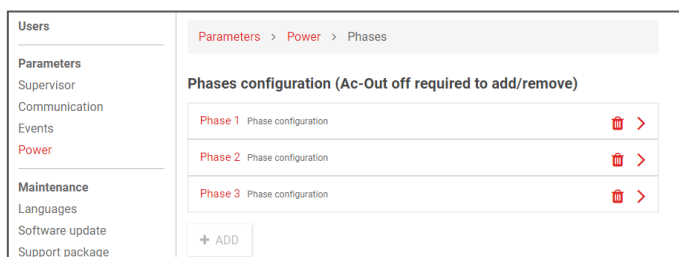


Figure 5: Inview S - Phase configuration

C) Phase configuration and Number of modules in each phase

- Go to “Phases” page (Administration (⚙️) > Parameters > Power > Phases), set the number of phases depending upon the system’s final configuration. By default, Phase 1 (single-phase) will be enabled. Click “+ ADD” and “🗑️” button to add and delete phases. (Figure 5)
 - Dual-phase: enable Phase 1 and 2.
 - Three-phase: enable Phase 1, 2 & 3.

(Note: while configuring the AC phases, the module should be in OFF mode)

- Go to “Phase configuration” page (Administration (⚙️) > Parameters > Power > Phases > Phase 1) and enter the number of modules and redundancy for the corresponding phase. (Figure 6)
- For dual or three-phase systems, follow step 2 for assigning modules in phase 2 and 3.

D) Output voltage and Frequency configuration

- Go to the Converters page (Administration (⚙️) > Parameters > Power > Converters) and configure the module parameters. (Figure 7)
 - Output Frequency:** Set the “Free running frequency (016)” to match with the nominal frequency of the AC mains (Grid).
 - Input frequency range:** Set the AC input frequency range (012 to 015) to the tolerance of the AC mains
 - Output voltage:** Set the AC output voltage to match with AC input nominal voltage. (Note: AC output voltage must be set to the same value as nominal AC input voltage. Max 10 Vac deviation is allowed.)
 - For single-phase: set the parameter (026), dual-phase: set (026) and (027), and three-phase: set (026) to (028).

Module configuration

- Go to Power System page (Home page > Power system) and verify all the inserted modules are present in the list. (Figure 8)
- Click the first module in the list and **switch OFF the module output** by clicking “SWITCH OFF” button. Similarly, switch OFF all the remaining modules in the list. (Figure 9)
- Again, go to Power System page, search the phase 1 module in the list, set the module ID and assign the phase 1. (Figure 9)

(Note: Clicking on “BLINK LED” button, the corresponding module LED’s blink for 6 seconds, and it helps to identify the module in the system physically.)
- For dual-phase system: after completing step 3, search the phase 2 module in the list, set module ID and assign the phase 2.
- For three-phase system: after completing step 3 & 4, search the phase 3 module in the list, set module ID and assign the phase 3.
- Switch ON all the modules output by clicking “SWITCH ON” button. (Figure 9)
- Insert remaining modules for phase 1 in the system and set appropriate module ID.
- Follow step 7 process for phase 2 and phase 3 modules.
- After configuring all the modules, verify the number of modules configured, installed and available power in each phase of the system at Power system page (Home page > Power system).
- Make sure both the AC and DC sources are present in the system.

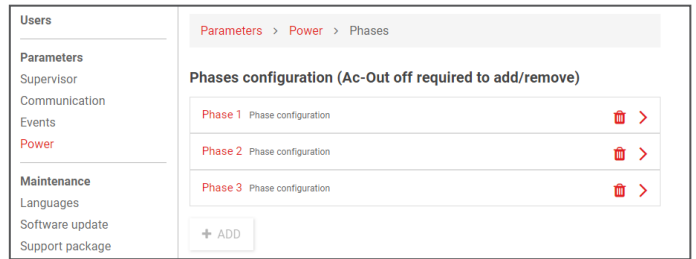


Figure 5: Inview S - Phase configuration

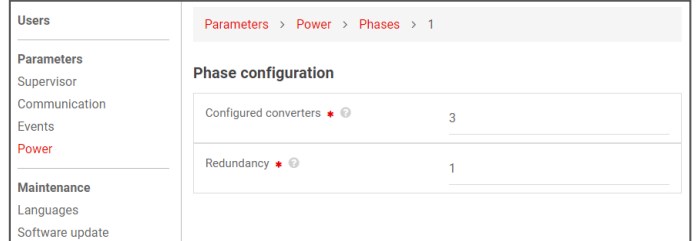


Figure 6: Inview S - Number of modules in each phase

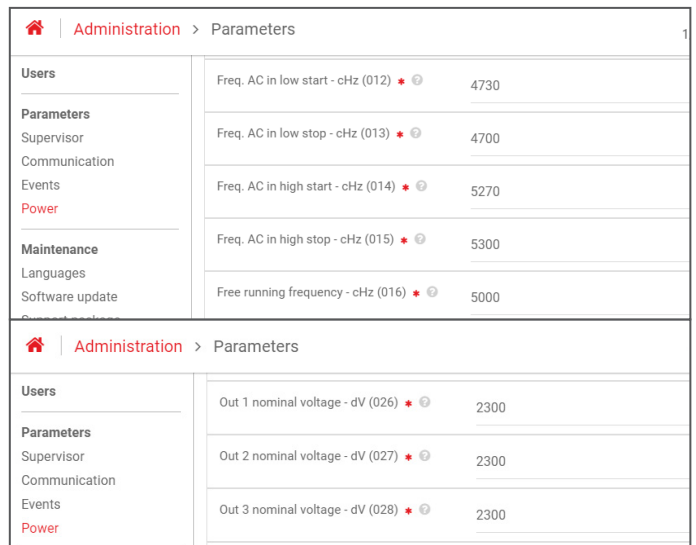


Figure 7: Module Parameters - Frequency and Output voltage

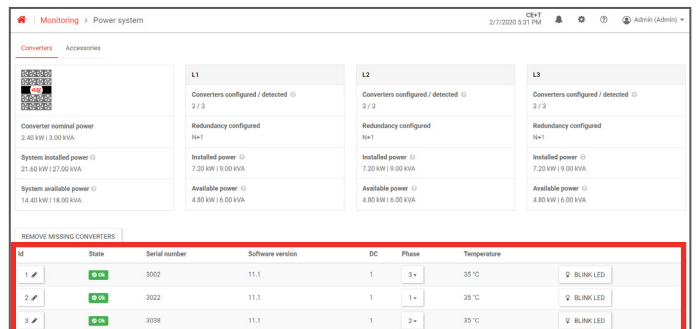


Figure 8: Modules list

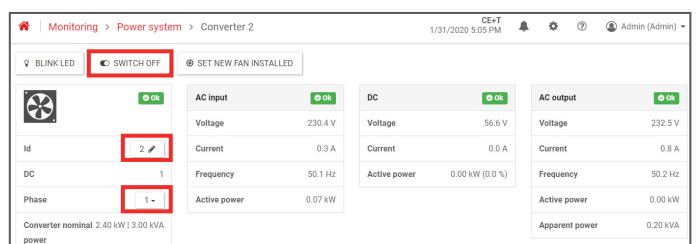


Figure 9: Module configuration

For more information, refer to Inview S user manual or contact us at customer.support@cet-power.com

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