

# 4 Powering On and Powering Off a BTS3012 Cabinet

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## About This Chapter

This topic describes how to power on and power off a BTS3012 cabinet. The topic includes power-on, normal power-off, and emergency power-off of a BTS3012 cabinet.

### [4.1 Powering On the BTS3012 Cabinet](#)

Before powering on the BTS3012 cabinet, ensure that the power cables are properly installed in the cabinet. The input power ranges from –40 V DC to –60 V DC. Set all the switches on the Busbar in the cabinet to OFF.

### [4.2 Powering Off a BTS3012 Cabinet](#)

The power-off of a BTS3012 cabinet is of two types: normal power-off and emergency power-off. In special cases, such as an equipment swap and a foreseeable regional power cut, the normal power-off of the BTS3012 cabinet is required. In the cases when a fire, smog, or water immersion occurs, emergency power-off of the BTS3012 cabinet is required. The power-off operation disrupts all the services offered by the BTS.

## 4.1 Powering On the BTS3012 Cabinet

Before powering on the BTS3012 cabinet, ensure that the power cables are properly installed in the cabinet. The input power ranges from  $-40\text{ V DC}$  to  $-60\text{ V DC}$ . Set all the switches on the Busbar in the cabinet to OFF.

### Procedure

- Step 1** Connect the DC Power Distribution Frame (PDF) to the cabinet.
- Step 2** Check whether the input voltage of the power distribution box on the top of the BTS3012 cabinet ranges from  $-40\text{ V DC}$  to  $-60\text{ V DC}$ .
- If the input voltage is within the range, the cabinet power-on check is complete. You can perform the board power-on check.
  - If the input voltage is beyond the range, go to the next step.
- Step 3** Switch off the DC PDF and cut off the input power of the BTS3012 cabinet.
- Step 4** Check the output voltage of the PDF. Check the installation and distribution of the power cables on the top of the cabinet. If required, rectify the fault.
- Step 5** Check the output voltage of the DC PDF. Perform the cabinet power-on check.

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## 4.2 Powering Off a BTS3012 Cabinet

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### Procedure

- Perform the normal power-off.
  1. **Change the management state of the BTS.** Block all the DTRUs in the cabinet.
  2. Set the MCB DAFU on the busbar to OFF.
  3. Set MCBs DTRU 0–DTRU 5 on the busbar to OFF.
  4. Set the MCB DCCU on the busbar to OFF.
  5. Set the MCB FAN on the busbar to OFF.
- Perform the emergency power-off.
  1. Switch off the  $-48\text{ V}$  input power.
  2. Set all the power switches on the busbar to OFF.

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