

**Control Boards**

One phase module block includes the following boards:

- main circuit interface board (NINT): This board gives the control commands and sends measurement signals.
- two control distribution boards (NXPP, in frame size R10i and up). These boards distribute the control commands given by the NINT board.
- gate driver boards (NGDR), in frame size R4i and up. These boards amplify the control pulses for the insulated gate bipolar transistors (IGBTs).
- power supply board for gate drivers (NGPS) in V-phase module
- power supply board (NPOW-62) in V-phase module. This board is not included in frame sizes R2i and R3i.
- main circuit board NBUB in frame size R3i

An inverter of frame size 2 x R12i includes twice the control boards of an R12i inverter. An inverter of frame size 3 x R12i includes three times the control boards of an R12i inverter, etc.

**Control Board Diagram**  
(R4i to R7i)

This diagram shows the control boards that control an inverter of size R4i to R7i.

