A three-phase power-distribution system has balanced three phases with each phase difference 120°. When a failure occurs in the power-distribution system, however, the system may go into an unbalanced three-phase state where voltages of the phases become inconsistent or the phase difference changes from 120°. Thus, devices operating on a three-phase basis require testing for verifying operations when unbalance occurs.

**By using the three-phase system of DP series**

- In addition to a voltage value per phase or a line voltage value, you can individually set a phase difference per phase in an unbalanced state testing.
- The sequence function is equipped. The sequence editing software is included.
- You can change voltages and phases in an unbalanced state during the output enable state.

**Example of unbalanced three-phase test with DP series**

Balanced three-phase

- Three-phase 18 kVA system
  Consists of three units of DP060S (single-phase 6 kVA).

Only phases are unbalanced.

- Phases and voltages are unbalanced.

NF Corporation
NF Techno Commerce Co., Ltd. / NF Techno Commerce Inc. (USA)
You can switch between the balanced and unbalance mode.

The voltage/phase setting for the unbalance mode is as follows.
Voltage setting resolution: 0.1 V per phase/0.2 V per line
Phase setting: between L1 to L2 120.0° (±35.0°), L1 to L3 240.0° (±35.0°)

In conjunction with the low frequency immunity test software DP0408, you can conduct testing when the international standard "IEC 61000-4-27 Unbalance, immunity test" is required.