

Test for devices with three-phase input and line voltage 480 Vrms

KEY WORDS

• AC power source • Line voltage output 480 Vrms • Voltage fluctuation test

PRODUCTS

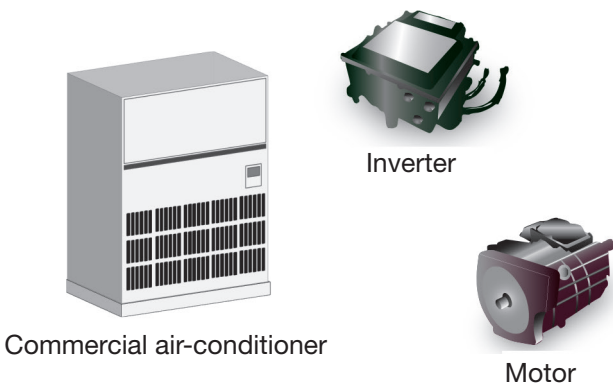
Programmable AC power source DP series

In some countries, line voltage 480 Vrms is used for three-phase power-distribution systems. For testing devices connected to such systems, you need to consider fluctuation in the power supply voltage in addition to 480 Vrms. For example, if the voltage fluctuates within $\pm 10\%$, test environment with line voltage exceeding 500 V is required.

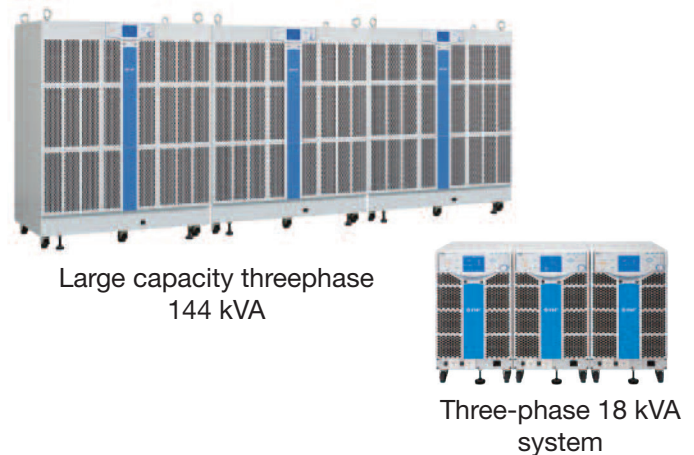
● By using the three-phase system of DP series

- ▶ The maximum line voltage output is 536.8 Vrms. (The maximum output of the phase voltage is 310 Vrms.)
- ▶ Testing for fluctuation within $\pm 10\%$ is possible for three-phase line voltage 480 Vrms.
- ▶ You can enter voltage setting by selecting line voltage or phase voltage.

Example of DUT's



Power sources for testing



- Three-phase systems of programmable AC power sources are used to verify operation of devices and conduct various tests.
- Since the maximum line voltage output is 536.8 Vrms, testing for up to +11% of 480 Vrms is possible. (Customization: A model capable of outputting 552 Vrms (+15% of 480 Vrms) can be manufactured.)
- An extensive lineup includes output capacities of three-phase 4.5 to 144 kVA. You can select the optimal AC power source according to the power consumption of the load.

Programmable AC power source DP series

- Optimal as CVCF for anechoic chambers.
Stable output for low noise. Stable output for line filter.
The maximum three-phase 144 kVA supports testing of large-sized equipment.
- Can deal with loads where regeneration/reverse power flow occurs. (DP series Type R)
Output capacity: Three-phase 4.5 - 27 kVA
Customization is available up to three-phase 81 kVA.
- The latest low frequency immunity test software DP0408 (sold separately) supports various tests for the international standard IEC 61000-4.
Voltage dips test system can be configured for IEC 61000-4-34 tests for devices with input current more than 16 A and not more than 75 A.