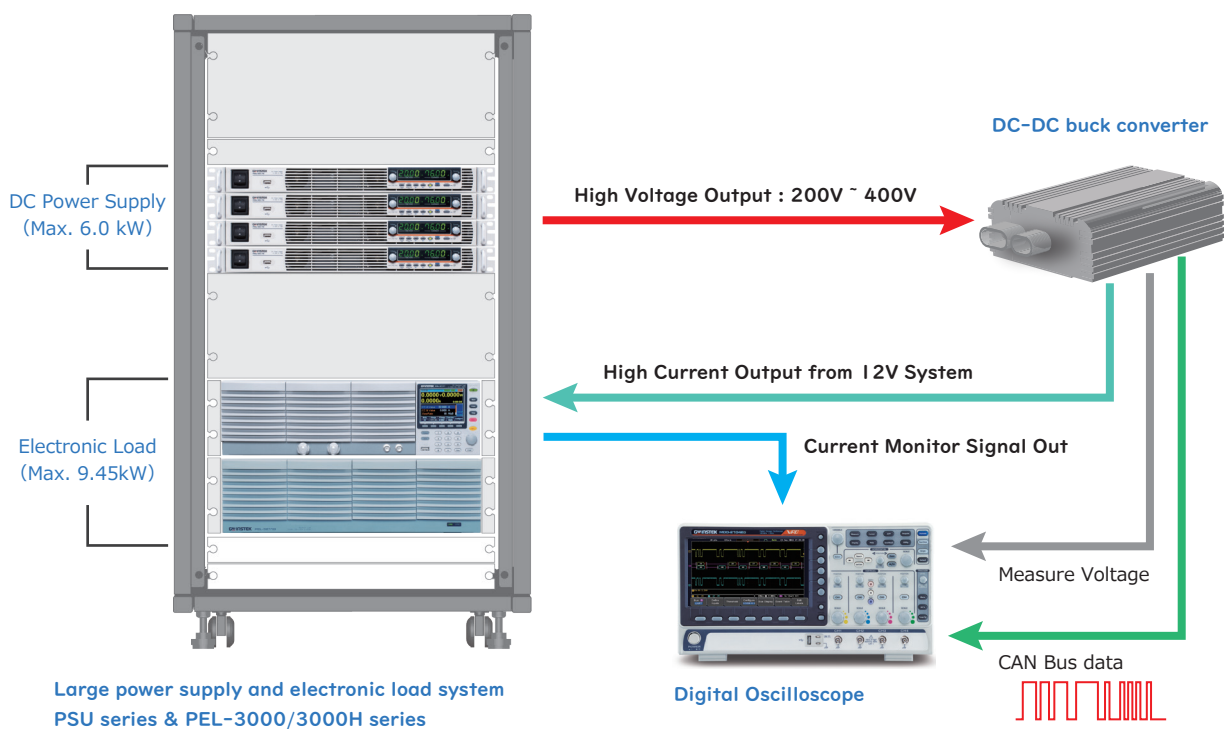


Evaluation system of Step-down DC-DC converter using high-voltage power supply and large-capacity electronic load

In the automobile market, the proportion of electric cars such as hybrid cars is getting higher year by year. The main battery of the electric car is a high voltage output of 200 V to 400 V. In order to drive conventional electric instruments such as meter panel and light control ECU, it is necessary to convert a high voltage output to 12 V battery voltage with step-down DC / DC converter. Even if the voltage of the main battery fluctuates, the DC / DC converter is required to provide a stable power supply to electrical components and others. A system combining high voltage high capacity large capacity DC power supply and large capacity electronic load device makes it possible to evaluate DC / DC converter.

Test Image

A DC power supply supplies 200 to 400 V output instead of a high voltage battery, and an electronic load device simulates a 12 V series in-vehicle device. This system can continuously test the DC-DC



Feature

✓ Fast sequence function can simulate complex load fluctuations

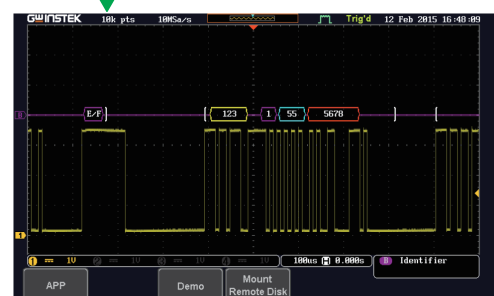
The Fast Sequence function of the PEL - 3000 series can simulate various load fluctuations.

✓ 19 inch rack mount size

PSU series and PEL - 3000 series are 19 - inch rack size ideal for system up.

✓ Detailed analysis with oscilloscope BUS trigger

MSO-2000 series can decode CAN signal with 16ch logic analyzer option. Also, the MSO-2000 and GDS-2000E series can decode CAN signal even with analog input. If this function is used and the ID or specific data issued under the idling stop activation condition etc. is used as the oscilloscope trigger signal, analog signals such as voltage value and current value before and after the trigger signal can be observed.



CAN Trigger and Decode