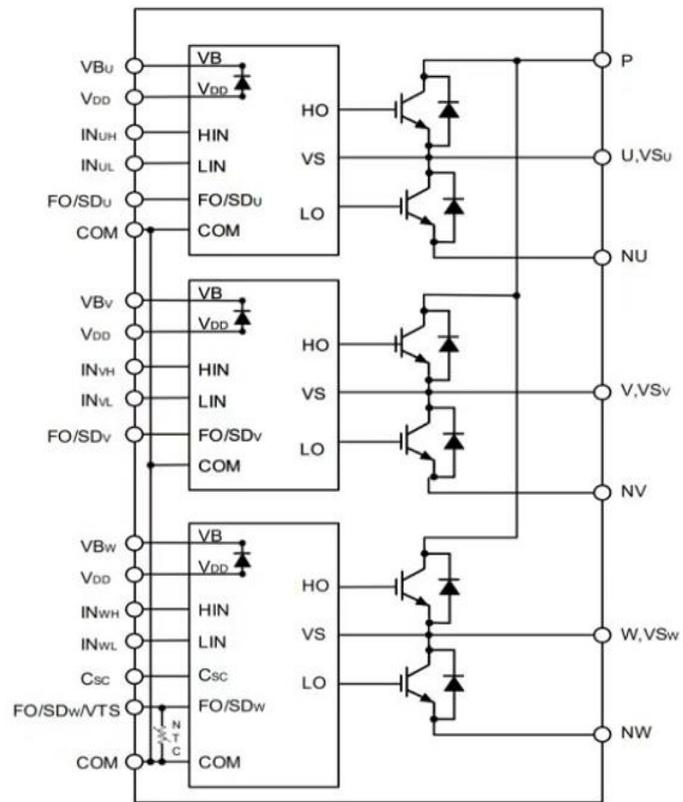


## IPM test solution

**IPM**, short for Intelligent Power Module, integrates control ICs, driver circuits, and power devices (such as IGBT/MOSFET) into a single module. It offers advantages such as high current density, low saturation voltage, high switching frequency, high functional integration, comprehensive protection features, ease of use, compact size, and high reliability. As a result, it is being increasingly widely adopted.

The figure on the right shows a typical circuit system block diagram of an IPM module. Using our testing solution, both DC parameters and AC (dynamic) parameters can be tested in a single step, with high efficiency.



SineTest's IPM/PIM test solution demonstrated our unique technology: mixed-using of analog and discrete test modules together to solve the complicated test.

- Tester model: STT-700X (13 slots) with IPM/PIM test head
- 1xDDC1230E (discrete test module) provides 100A current and 1400V voltage (force& measurement), this module can speed the DC test of the IPM/PIM module
- 1xFV116 - provide 16 channel high precision VI to support the DC test
- 1xDIO32(20Mhz) provides 16 I/O and 16 Outs, 8M memory depth for digital test
- 1xQTMU provides 4 timing measurement unit
- 1xSwitching Test Module(built-in test head), with high-speed oscilloscope, can make double pulse or multiple pulse test for switching parameters (Ton/Toff/Tdon/Tdoff/Eon/DiDton/DvDton etc..)

Remark: upgrade to 4000V/1000A/3000A(Isc)