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## HEPS Magnet power supply with magnetization and demagnetization functions

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After the magnet is magnetized, due to the characteristics of the magnetization curve, there will still be residual magnetism in the magnetic field even after the magnetizing power supply is turned off. When measuring the same magnet multiple times, the residual magnetism not only affects the measurement of the magnetization curve but also impacts surrounding devices and instruments. In the magnetic measurement work prior to the installation of the magnet, it is sometimes necessary to demagnetize the already magnetized magnet. The magnetic measurement power supply described in this article can operate in both magnetization and demagnetization modes, where the magnetization mode provides a DC current with high stability for magnetization, and the demagnetization mode automatically demagnetizes the magnet.

### Footnotes

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