

The operational reliability of CSNS 400Hz AC Series Resonant Pulse High Voltage Power Supply

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400Hz AC Series Resonant Pulse High Voltage Power Supply is an important part of Klystron Power Source of China Spallation Neutron Source Linear Accelerator. It can provide maximum - 120 kV DC high voltage. Each set of the high voltage power supply drives two klystrons. There are five sets of klystron power sources in CSNS linear accelerator, so there are three sets of high voltage power supply running online. The advantages of this type of high voltage power supply are simple topology and high availability. This paper will introduce the principle and the operational reliability of 400Hz AC Series Resonant Pulse High Voltage Power Supply since CSNS was put into operation from October, 2018.

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