DIAMOND Light Source Septum Magnet Power Supply

Description

Danfysik has made the Magnet Power Supply for the Septum Magnet for Storage Ring Injection Straight, Oxford, United Kingdom.

Data

Specification for Septum Magnet Power Supply

- Max. output current : 11,500 Apeak
- Max. output voltage : 467 V
- Pulse : 160 µs Full sine wave
- Repetition frequency : 5 Hz
- Max. time jitter : ±50 ns
- Topology : Capacitor discharging circuit with thyristor

Power Supply for Septum Magnet for Storage Ring Injection Straight


Danfysik was the selected supplier of all the fast magnets as septum and kickers with the belonging pulse power supplies for the injection and extraction at the DIAMOND Light Source. The systems can operate up to 5 Hz.