

Pulse Power Supply 脉冲电源



Introduction

The device is a power output unit of DC switch, which can replace 5STH and 5SPY series pulse power supply. It is composed of light control, electric control, integrated pulse output transformer, resistance capacitance static and dynamic pressure, metal oxide varistor (MOV, optional), diode restrain (optional), one or more thyristors.

Main Parameters

- DC Working Voltage =25kV
- Output Pulse Current =100kA
- Rate of Current Rise =2000A/ μ s
- Pulse Current Width: 50 μ s-10ms
- Repeated Cycle = 3 min
- Control Mode: light control, electric control, optional
- Maximum Outline Dimension: 500 \times 500 \times 345mm
- Weight: 55kg (including all the optional components)

Applications

This device has the advantages of superpower anti-interference capability, environmental protection, super long electromechanical life.

Experiment has proved that the electric parameters are always the same when we have successfully operated the machine 20,000 times under 18kV, 15kA working condition.

The device can be widely used in fields of high voltage and pulse high current, like Xenon light, electromagnetic emission and magnetizing machine. It is an optimal scheme of replacing contact-switch and mercury ignitron.

概述

本产品为直流开关之功率输出单元，可替代5STH和5SPY系列脉冲电源。由光、电控制，一体化脉冲输出变压器，阻容静、动态均压，压敏电阻吸收（可选），二极管抑制（可选），单只或多只晶闸管开关串等组成。安装使用十分方便。

主要技术指标

- 直流工作电压 \leq 25kV
- 输出脉冲电流 \leq 100kA
- 电流上升率 \leq 2000A/ μ s
- 脉冲电流宽度：50 μ s–10ms
- 重复周期=3min
- 控制方式：光控、电控，任选
- 典型最大外形尺寸：长 \times 宽 \times 高=500 \times 500 \times 345 mm
- 典型重量：55kg(包括全部可选件)

应用领域

该装置具有极强抗干扰能力，绿色环保、极长机电寿命等优势。

实验表明：我们成功的在18kV,15kA的条件下，运行20000余次，其电参数毫无改变，该装置可广泛应用于氙灯点燃、电磁发射、充磁机等高电压、脉冲大电流等领域。是取代触点开关、充汞引燃管等最佳方案。