

It is intended for the formation of current pulses in two channels with the amplitude and phase control to operate as a part of the complex of electric pulse machining of welds, which was created in the E.O.Paton Institute for Electric Welding of the NAS of Ukraine.

The proposed scheme has the following advantages:

- pulse-width method of charging and milking of capacitive storage;
- bipolar operating mode;
- minimized value of filter capacity;
- high efficiency due to the absence of resistance charge and discharge links.

Main technical specifications: Three-phase 380 V network with zero output Supply Galvanic isolation input - output 3,5 kV, transformer Number of channels 2 Amplitude of pulse in each channel 0 ÷ 5 kA 10 ÷ 750 V Voltage in the channel Current pulse duration of the clamping channel 680 ms Current pulse duration of the discharge channel 550 ms Time delay between current pulses in channels 10 ÷ 100 ms Maximum measured current of the discharge circuits 5000 A Cooling Air forced