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The invention allows to expand the field of application of the impulse voltage regulator at the expense of extending the input voltage band and the load impedance range.

The regulator contains a rectifier 1, a ripple filter 2, a store reactor 3, a control electronic switch 4 and a measuring resistor 5, connected with the input of the first threshold node 6, as well as with the consequently connected by the help of the master oscillator 7, the coincidence nodal point and the RS flip-flop 9. The first coincidence nodal point input is connected with the output of the oscillator 7, but the second coincidence nodal point input - with the output of the second threshold node 12. The RS- flip-flop with the inputs is connected with the coincidence nodal point and the first threshold node 6. The logical zero is receipted from the output of the second threshold node 12 to the second nodal point input 8, which is shutting it and is cutting of the control pulse supply to the electronic switch 4.

At no-load the logical unit is receipted from the nodal point output 12 to the second nodal point input 8, which permits the work of the electronic switch 4 for energy accumulation. The present device doesn't require an overload complementary protection as its performance principle in the event of short circuits ensures the load voltage drop up to zero.