

PULSE CURRENT SOURCE PCS10 SERIES



The **Pulse Current Source PCS10 series** is a series of pulse voltage sources capable of delivering pulses with an adjustable voltage up to 400V and current up to 3000A (model dependent).

Characteristics

The pulse voltage sources of the **Pulse Current Source PCS10 series** are suitable for inductive and resistive loads. The pulse energy is taken from a capacitor battery and can be up to 2kJ depending on the model, pulse repetition rate and selected pulse voltage.

Both the pulse width and the current can be preselected as criteria for terminating the voltage pulse.

The charging voltage of the capacitor bank can be set between **10V and 400V**. The voltage and current are unregulated. When the pulse energy is relatively small compared to the energy stored in the capacitor bank, the pulse voltage is approximately constant.

The pulse duration can be set between 3 μ s and 70ms in increments of 1 μ s. The maximum current, upon reaching which the pulse is terminated, can be set in steps of 1A.

Applications are e.g. the **test of power semiconductors (RBSOA)**, many other applications are possible.

Features

- **2x fiber optic outputs and 1x TTL output for triggering external devices**
- **Adjustable delay of the trigger outputs** between 0 and 3.75 ms compared to the falling edge of the pulse output
- **Leakage test to check the function of power semiconductors** before and after the impulse test

Software

Software for Windows is supplied to operate the **Pulse Current Source PCS10 series**. The communication protocol is described in the operating instructions so that the control can be easily **implemented using your own applications**. Example projects in C and VB, which can serve as a basis for own applications, are included in the software package.

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PCS10 SERIES



Technical specifications

	PCS10-1000B	PCS10-3000B/E
Pulse current range 1 [A]	0 - 10	0 - 30
Pulse current range 2 [A]	0 - 100	0 - 300
Pulse current range 3 [A]	0 - 1000	0 - 3000
Pulse energy, max. [J]	1350	2750
Pulse voltage	10 - 400V	
Pulse width, max.	3µs - 70ms	
Interface	USB and RS232	
Power supply	207 - 253VAC / 50 - 60Hz; optional 108 - 132VAC or 90 - 110VAC; 450VA max.	
Dimensions	365 (B) x 325 (T) x 167 (H) mm ³	
Weight [kg]	9.0	10.7

Scope of delivery

- PCS10 - 1000B | - 3000B/E
- Cable set
 - Connection line 2x Force + 1x Sense, 0.6m each with alligator clips
 - USB cable and RS232 cable
 - Power cord
- PC software for Windows
- Instruction manual (German or English)
- Communication protocol for integration of the instrument into automated test environments using your own applications

Accessories

- Hard-top case (CASE1)
- Customized connection lines on request