DSQ SAU Series

High voltage square signal generator



- ♦ Stand-alone unit
- ♦ Vin: 9 to 18Vdc
- \Diamond Output: square signal up to 3.5kV
- ♦ Rise/fall time <100ns, frequency up to 100Hz



General Description

♦ The DSQ-SAU is dedicated to drive piezoelectric transducers, pockels cells or any other application equivalent to a capacitive load.

Parameters	Specifications
Input voltage Vin Jack connector on rear panel	9 to 18Vdc (<15W)
HV output Vout SHV connector on rear panel	Square waveform Max duration: 15µs Amplitude settable from 0 to 3.5kV Rise time <20ns, fall time <100ns Frequency: up to 100Hz 4 digits indicator on front panel
Polarity	Negative unipolar signal
HV setting	Via front panel potentiometer or two preset volatge selectors
Trigger SMA connectors on front panel	Two ways to trigger the output: - Straight (delay is around 60ns) - Delayed (delay is preset from 100ns to 30µs with 100ns step)
Trigger	As per the duration of the trigger signal if the straight trigger is used preset from 200ns to 999µs with the selectors on front panel, by step of 100ns if the delayed trigger is used.
On state duration (plateau)	The max ON state durations depends on the frequency and the amplitude of the output signal. It is limited by the power capability of the product. See fig. 4 below. The minimum duration is 170ns, the maximum is 15µs in any case.
Frequency	The max frequency depends on the plateau duration and the amplitude of the output signal. It is limited by the power capability of the product. See fig. 4 below. The max frequency is 100Hz in any case.
Load	Typical load is given to 10pF
Overload indicator	A red led on front panel indicates when the generator is overloaded



Main applications

- Piezoelectric actuators
- Q switchs

Package Configuration		
Case dimension L x W x H	200 x 140 x 80 mm	

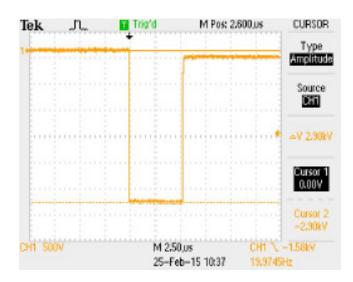


Fig.1: Overall view of the output voltage



Fig.2: Rise time <20ns





This High Voltage power supply satisfies the requirements of EC Directives Safety.

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Fig.3: Fall time >100ns

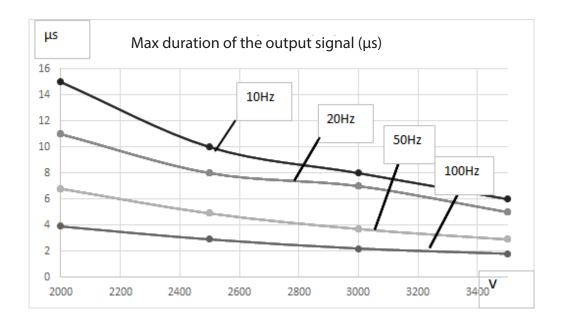


Fig.4: Capability of the product





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