



ZEONICS SYSTECH
DEFENCE & AEROSPACE ENGINEERS (P) LTD.



60kV Pulse Current Injection (PCI) System



This Pulse Current Injection system or PCI is used to measure the performance points of entry according to MIL standards. It is a highly durable system for military use.

As a pulse current injection system which will generate a peak current of 1.2kA and approximate source impedance of more than 60 ohms.

Proudly Made in INDIA

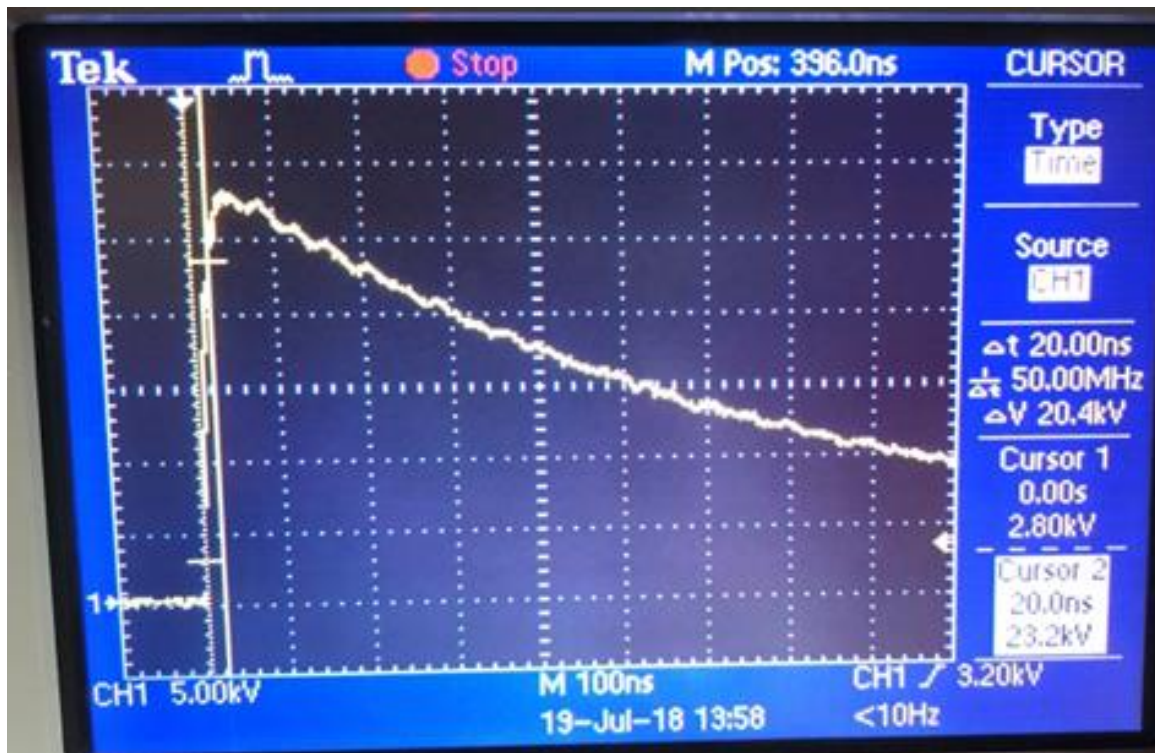




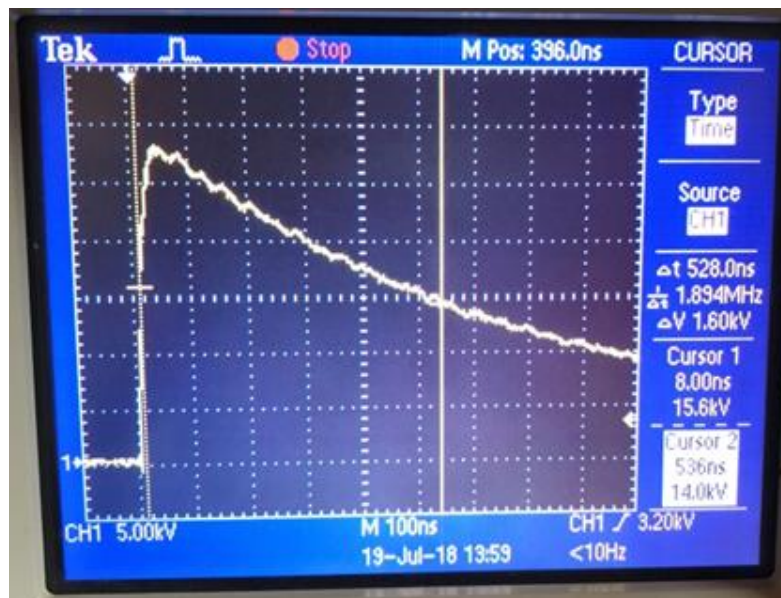
Specifications

1. Input voltage : 230 volts, 50Hz, Single Phase
2. Peak open circuit voltage : 5kV to 60kV, positive only
3. Standards : MIL-STD-188-125-1/2 short pulses
4. Source Impedance : ≥ 60 ohm
5. Peak Short circuit current : 1.2 kA
6. Rise time of SC current : $20 \text{ ns} \pm 4 \text{ ns}$
7. Pulse length : 500 – 550 ns
8. Charging Time : $< 1 \text{ min}$
9. Output connectors : Connecting bar with diff drilling dia
10. Power rating : 150 Watts
11. Dimension of Generator : 830 x 280 x 288 mm (L x H x W)
12. Dimensions of Control : 515 x 215 x 310 mm (L x H x W)
13. Weight of Generator : 37kgs
14. Weight of Control unit : 30kgs
15. Type No : Z/43/111
16. Working Temperature : -10°C to 45°C
17. Storage Temperature : -20°C to 50°C
18. Altitude : Max 2000 meters above sea level

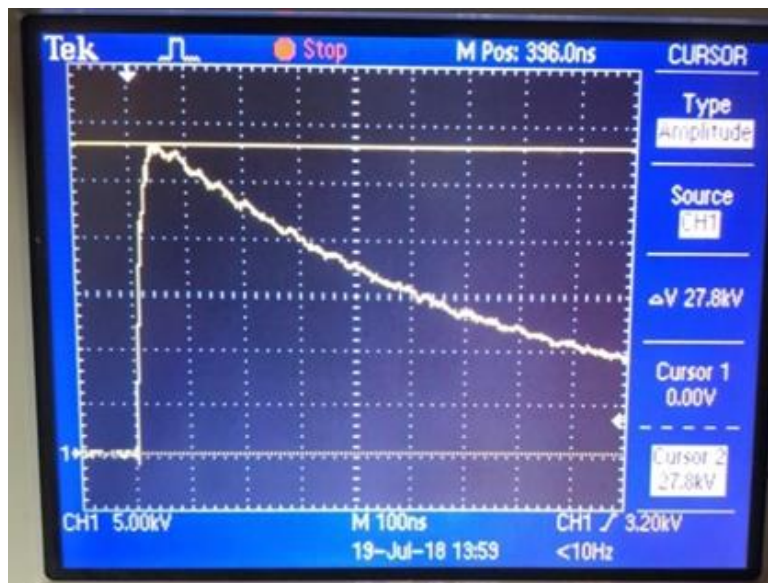
Waveforms



Rise time: $20 \text{ ns} \pm 4 \text{ ns}$



Pulse width: 500-550 ns



Amplitude: 278A (a typical example)



Applications



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These systems are technically used for testing and validation of entire structures which are MIL-STD-188-125-1/2 qualified. Hence the system is compact in nature and portable.

Once the pulse current is injected into the establishment or equipment intended for test, one can see what are the outputs achieved within the shielded area and do the self-assessment.

Advantages

We at Zeonics make the PCI system very rugged and military grade. The construction is light weight and easy to handle. One of the most important advantages is the wide amplitude range available from 5kV to 60kV.

Installation

The system comes in two parts, one being the generator and one being the control system. Both of them are connected by cables and connectors.

Care should be taken that tight connections are done so that there are no spikes and discharges.

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