



PCI- PULSE CURRENT INJECTOR

ZEONICS SYSTECH

DEFENCE & AEROSPACE ENGINEERS PVT LTD



WHO ARE WE?

We stand out by delivering innovative solutions and excelling in High Voltage, Pulse Power, and Futuristic Weapons.

Our diverse range of equipment finds applications across various fields, encompassing RADARs, Plasma Generation, Scientific Research, Futuristic Weapon Systems, Medical equipment, Fission and Fusion Research, Large energy storage, discharge systems, X-ray Systems, Shock Wave Generators, NEMP Generation, Protection, and more.

Furthermore, with certifications from ISO, DSIR, CE, NSIC, and IAEA, we ensure the manufacturing of professional and intuitive equipment. Since 2018, Zeonics Systech has been focusing on innovating systems for the general public.

Zeonics Systech offers expert consultancy services in critical areas like High Voltage, Pulse Power, Transformers, Material Science, Pulse Forming Networks, High Frequency, and High Power Systems.

Our well-equipped R&D laboratory and Testing Lab performs testing and certification of various components and equipment ensuring 100% accuracy and peace of mind.

CONTACT US



Catalog



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Email

OUR STORY

We at have been involved in several projects of national importance and in the past have designed, developed, manufactured and supplied projects/systems/components to several such projects. Missiles, Radars, Weapons all being successful and used today to protect and guard our mother land "INDIA"

We have also diversified into Futuristic Electromagnetic Weapon systems, Fast Rise Time Impulse Generators, Food Processing and Pulse Power Equipment.

OUR MISSION

Continuously Strive To Achieve The Highest Research, Manufacturing & Testing Standards In Reliability, Safety, Performance & Efficiency Of Weapon Electricals, Electronics & Nuclear Equipment for Futuristic Weapons Missiles & Radars Manufactured Indigenously In Our Country.

Take The country ahead In the Most Advanced Armament Technologies available today. In the future, make Mother India Self Reliant in these deprived Grey Technologies, which were always kept away from India By Manufacturers all over the World.



ZEONICSSYSTech

DEFENCE & AEROSPACE ENGINEERS PVT LTD

PRODUCTS RANGE

- **Capacitors**
- **Cables & Connectors**
- **Diodes**
- **Diagnostics**
- **EMP/NEMP/ HEMP**
- **Products**
- **Load Banks**
- **Pulse Generators**
- **Plasma Generators**
- **Power Supplies**
- **Resistors**
- **High Voltage Switches**
- **Transformers**
- **HV Specialized Products**

EMP/ NEMP/ HEMP



INDEX

1. PCI- PULSE CURRENT INJECTER

PCI PULSE CURRENT INJECTOR



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.

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.



RUGGED PULSE
CURRENT
INJECTOR
1AV



PULSE CURRENT
INJECTOR
CONTROLLER



PULSE CURRENT
INJECTOR



PCI- PULSE CURRENT INJECTER

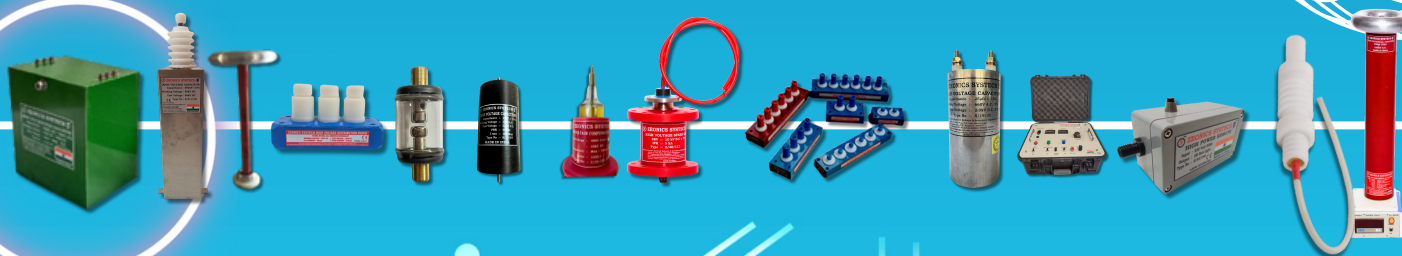
Input voltage	230 volts, 50Hz for battery charging	230 volts, 50Hz, Single Phase
Peak open circuit voltage	5kV to 60kV, positive only	5kV to 60kV, positive only
Standards	MIL-STD-188-125-1/2 short pulses	MIL-STD-188-125-1/2 short pulses
Source Impedance	≥60 ohm	≥60 ohm
Peak Short circuit current	1.2 kA	1.2 kA
Rise time of SC current	20 ns ± 4 ns	20 ns ± 4 ns
Pulselength	500 - 550 ns	500 - 550 ns
Charging Time	< 1 min	< 1 min
Output connectors	Connecting bar with different drilling Dia	Connecting bar with diff drilling dia
Power Rating	150 Watts	150 Watts
Dimension of Generator	595 x 255 x 645 mm (L x H x W)	830 x 280 x 288 mm (L x H x W)
Dimensions of Control	460 x 205 x 350 mm (L x H x W)	515 x 215 x 310 mm (L x H x W)
Weight of Generator	~34kgs	~37kgs
Weight of Control unit	~23kgs	~30kgs
Operating Temperature	-10° C to 45° C	-10° C to 45° C
Storage Temperature	-20° C to 50° C	-20° C to 50° C
Type No	Z/50/48	Z/43/111



Z/50/48



Z/43/111



We have developed a vast portfolio of 3000+ products over the last 42 years

We regularly design new products and innovate new technology

We are certified by ISO, DSIR, CE, NSIC and IAEA - International Atomic Energy Agency and Sandia Labs, Lawrence Livermore and Los Alamos National Laboratories

WE HAVE EXPERIENCE FOR MORE THAN 42 YEARS IN THE FIELDS OF HIGH VOLTAGE & PULSE POWER. WE DO CUSTOM DESIGNS, SO DON'T HESITATE TO CONNECT WITH US!



Full Catalog



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CATALOG ID: Z/GEN/24/G1

"...The expertise available with M/s Zeonic in designing the indigenous capacitor bank has provided us valuable insight & confidence to replace the imported capacitor bank for the 1M Watt S-Band Polarimetric Doppler weather Radar Transmitter..."

-Dr V K Anandan,
Deputy Director, Radar Development Area,
ISTRAC - Bangalore



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