



**ZEONICS SYSTECH**  
DEFENCE & AEROSPACE ENGINEERS (P) LTD.



# Advanced Pulse Power & Impulse Systems

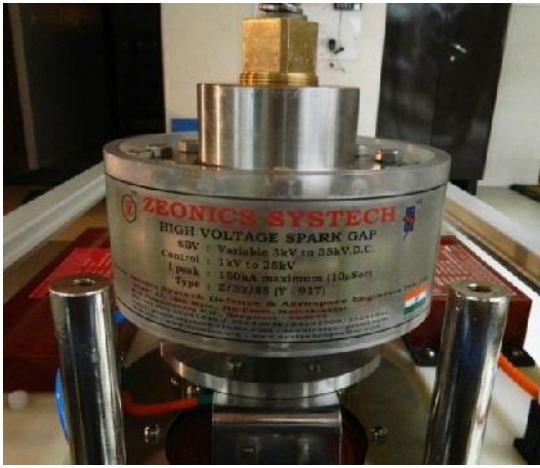


There are many critical requirements of miniature pulse power systems as well as Mega pulse power systems. We manufacture systems which range from several joules to several hundreds of kilo joules.

These systems are very handy, compact, and made using systematic, simple electronic, electrical components and materials.

Proudly Made in INDIA





### High Voltage Spark Gap (L)

- |             |                                |
|-------------|--------------------------------|
| 1. Control  | : 1kV to 25kV                  |
| 2. SBV      | : Variable from 3kV to 35kV DC |
| 3. I Peak   | : 150kA maximum (16 $\mu$ sPw) |
| 4. Energy   | : Maximum 20kJ                 |
| 5. PRR      | : 5ppm                         |
| 6. Pressure | : Nitrogen/SF <sub>6</sub> Gas |
| 7. Type No. | : Z/32/85                      |

### Compact Impulse System (R)

- |            |   |
|------------|---|
| 1. Input   | : 230Volt 50Hz 1 $\emptyset$                            |
| 2. Output  | : 25kV 1.2/50 $\mu$ s                                   |
| 3. Zo      | : 1k $\Omega$ /2k $\Omega$ /50k $\Omega$ /100k $\Omega$ |
| 4. Type No | : Z/41/56   |



### Coaxial Pulse Energy System

- |   |                               |
|---|-------------------------------|
| 1. 140kJ, 700kA or 280kJ, 1.4 MA or 420kJ 2.0MA Systems |                               |
| 2. Load Zo  | : Variable                    |
| 3. Firing   | : Single Trigger Multi Firing |
| 4. Type No  | : AMJI/ZHS/0420               |

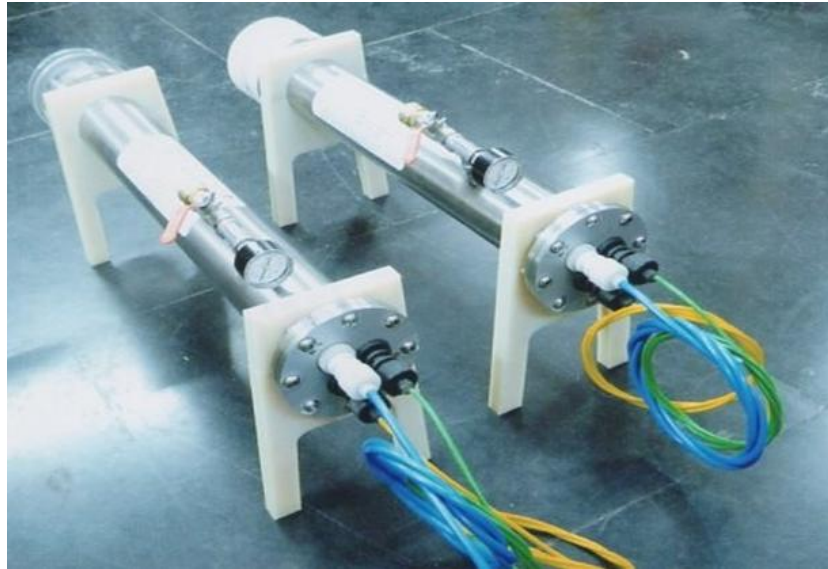


### Vertical 1000kV Dedicated Marx (L)

1. Energy : 5 kJ, 10kJ or 20kJ
2. Erected Capacitance : 15nF to 25nF
3.  $Z_o$  : Typical 10 Ohm to 40 Ohm
4. PRR : 1 Pulse/Minute

### High Frequency 5 kHz to 25 kHz 180kV/200kV Dividers (R)

1. Working Voltage : 180 kV AC rms at HF
2. Test Voltage : 250kV AC rms at HF
3. Frequency Band : 20 kHz  $\pm$  5 kHz
4. Ratio : 10,000:1



### High Voltage High Rep Rate 200kV Pulser

1. Output Voltage : 200kV Maximum
2. Rise Time : 30ns
3. Pulse Width : 300ns
4. Continuous : 30 Seconds ON
5. Duty : Continuous for 5 minute at 100PPS
6. Type No : AMJI/ZHS/002

### Applications

These are used for different type of applications starting from impulse generation, testing of equipment, radiation purpose, magna forming. They are also used for Z pinch plasma, plasma focus supplies, Neutron generation, etc.

### Advantages

The advantage of such systems is they are totally made in our country. They are made using material available on Indian soil and it is very easy to mass manufacture these components as well as repair and maintenance once they go to the field.

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