



About Us

Carona Power Electrical Test Systems is a engineering firm specializing in High Voltage Impulse Generator service, repair, refurbishment, and spares support.

Carona Power is engaged in design, manufacturing and supply of the high voltage impulse resistors and inductors. A High Voltage Impulse resistor and inductor is a specialized product designed to shape the impulse wave.

With deep industry experience in impulse voltage and current testing systems, Carona Power supports customers who depend on reliable operation of high voltage test equipment for routine testing, type testing, and R&D applications.



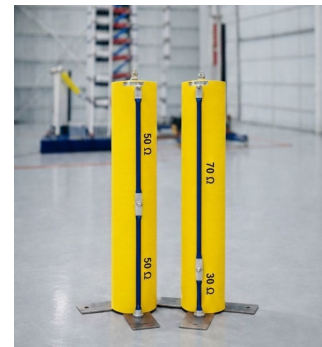


High Voltage Resistor Manufacturing & Supply

We design, manufacture and supply of custom built high Voltage impulse resistor per customer requirement

Applications

- Standard Lightning Impulses 1.2/50 μ s
- Standard Switching Impulses 250/2500 μ s
- Standard lightning current impulses of 4/10, 8/20 μ s
- Non-standard impulses voltages & currents
- Generation of oscillatory impulse voltages
- Wave damping resistor.
- Discharge resistor for energy storage capacitors
- Measurement of impulses as resistive dividers
- Charging resistor to limit the capacitor charging current
- Protection resistor to discharge the energy stored in impulse generator





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Specification

Resistor Type	Primary Function	Resistance Value	Energy Rating	Voltage Range
Front Resistor	Wave shaping front time	0.5Ω - 100kΩ	1kJ - 50kJ	50kV to 250kV
Tail Resistor	Wave shaping Tail time	0.5Ω - 100kΩ	1kJ - 50kJ	50kV to 250kV
Damping Resistor	To control oscillation in impulse waveform	10Ω - 1kΩ	5kJ - 300kJ	50kV to 3MV
Charging Resistor	Limits charging current to energy storage capacitors	500Ω - 100kΩ	1kJ - 50kJ	50kV to 250kV
Protection Resistor	Discharging energy stored in impulse generator during power failure	100Ω - 5kΩ	10kJ - 500kJ	50kV to 250kV
Resistive Divider	Voltage dividers for measurement	500Ω - 100kΩ	1kJ - 50kJ	10kV to 1MV
Discharge Resistor	Safely discharge energy stored in capacitor	500Ω - 10MΩ	5kJ - 100kJ	10kV to 250kV
Grounding Resistor	Safely discharge the energy stored in capacitor	500Ω - 10MΩ	5kJ - 200kJ	10kV to 1MV



High Voltage Inductor Manufacturing & Supply

We design, manufacture and supply of custom built inductors as per customer requirement

High Voltage Inductors

Applications

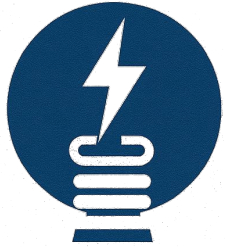
- Shaping the lightning impulse wave in high MVA transformer testing
- Glaninger Circuit
- Generation of lightning & switching current impulse for Lightning Arrester testing
- Generation of oscillatory impulse generation
- Used in research in development in generation of non-standard oscillatory impulse waves for GIS systems.



Additional Capabilities

- Partial Discharge (PD) Lab Construction
- High Voltage Impulse System Refurbishment
- Impulse Generator Repairs & Maintenance
- Replacement of Legacy Resistor & Inductor Systems
- Technical Consultation & System Integration Support





**CARONA
POWER**

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