



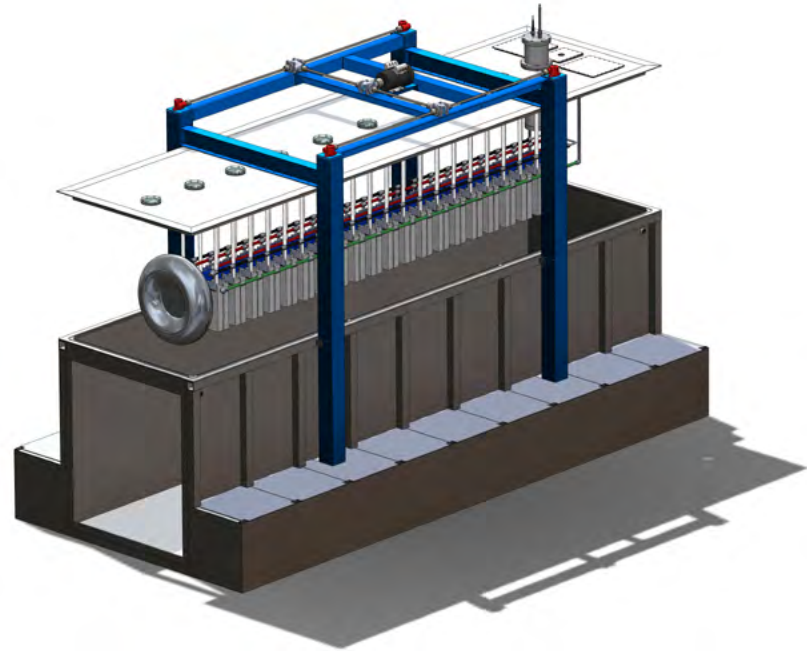
High Voltage Products. High Voltage Experts

SPECIALIZED

MARX GENERATORS

The leading name in compact Marx Generators since 1998, we focus on high-power and high-voltage pulse generators in low inductance configurations for faster rise times, higher peak voltages, and increased load voltage efficiencies

Our Marx Generators operate in a variety of pulsed power applications, from flash X-ray, HPRF, and HPM, to test and evaluation (T&E), triggering, and material studies.



Key Benefits

- Erected voltages up to several Megavolts (MV), with low source impedance, resulting in high system efficiency
- Energy storage from millijoules (mJ) up to kilojoules (kJ)
- Ultrafast rise times as low as 200 picoseconds (ps)
- Compact, portable versions for easy transport and durable field testing
- Unique geometric configurations tailored to customer preferences and requirements

Marx Generator Part Number Description



| Model | Typical Application | Max. Open Circuit Voltage | Erected Capacitance | Rise Time | Pulse Width (FWHM) | Source Impedance | Energy per Pulse | Peak power | Max. Rep rate |
|------------------------|---------------------|---------------------------|---------------------|-----------|--------------------|------------------|------------------|------------|---------------|
| MG17-1C-500PF | Direct RF | 510 kV | 29 pF | 0.2 ns | 8 ns | 160 Ω | 3.8 J | 400 MW | 20 Hz |
| MG17-1C-940PF | Direct RF | 510 kV | 55 pF | 0.3 ns | 13 ns | 125 Ω | 7.2 J | 520 MW | 20 Hz |
| MG10-1C-2700PF | Triggering | 300 kV | 270 pF | 5 ns | 35 ns | 40 Ω | 12.2 J | 560 MW | 20 Hz |
| MG15-3C-940PF | RF, Triggering | 600 kV | 188 pF | 3 ns | 25 ns | 50 Ω | 33.8 J | 1.8 GW | 100 Hz |
| MG16-3C-2700PF | Pulse charging | 600 kV | 540 pF | 15 ns | 50 ns | 23 Ω | 97.2 J | 4 GW | 100 Hz |
| MG40-3C-2700PF | Flash X-ray | 1600 kV | 200 pF | 20 ns | 50 ns | 70 Ω | 259.2 J | 9 GW | 20 Hz |
| MG20-22C-2000PF | HPM, Pulse charging | 800 kV | 2.2 nF | 20 ns | 80 ns | 18 Ω | 704 J | 9 GW | 20 Hz |
| MG20-1C-100NF | HPM, Pulse charging | 400 kV | 5 nF | 20 ns | 200 ns | 23 Ω | 400 J | 1.7 GW | 20 Hz |
| MG30-3C-100NF | HPM, Pulse charging | 600 kV | 10 nF | 90 ns | 400 ns | 33 Ω | 1800 J | 2.7 GW | 20 Hz |
| MG30-1C-100NF | HPM, Pulse charging | 600 kV | 3.3 nF | 25 ns | 150 ns | 40 Ω | 600 J | 2.2 GW | 20 Hz |
| MG83-1C-150NF | HPM, Pulse charging | 4150 kV | 1.8 nF | 180 ns | 270 ns | 70 Ω | 15000 J | 61.5 GW | 0.2 Hz |
| MG10-1C-150NF | MIL STD Testing | 300 kV | 15 nF | 15 ns | 525 ns | 60 Ω | 675 J | 1.5 GW | 0.2 Hz |