



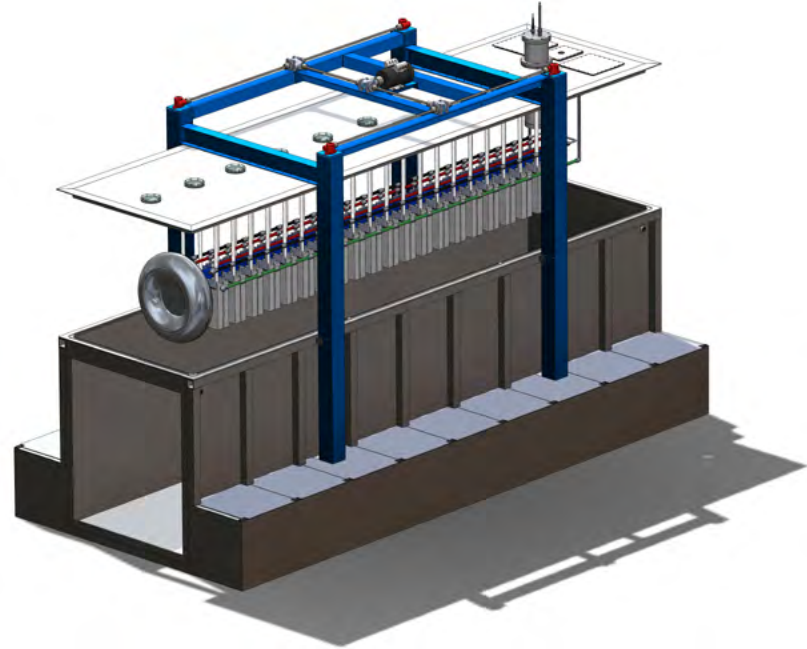
High Voltage Products. High Voltage Experts

SPECIALIZED

MARX GENERATORS

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

APELC's 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