

ITOPP, Leader in Pulsed Power Systems

Nano Marx generator & Compact Marx generator



from spark to lightning

ITOPP designs and manufactures Marx generators tailored to customers specifications.

With over 25 years of experience, ITOPP has acquired expertise in the maintenance and development of Marx generator systems. We can respond to customers' specific needs by adapting existing architectures, such as modifying the output current and voltage, or by designing complete systems that take into consideration the required performance and targeted application.

Nano Marx generator

The nano marx is used for triggering purposes in moderate voltage gas switches and is available with multiple stages.

Technical parameters

Output voltage	~20 kV / stage	the second second
Peak voltage	25 kV / stage	
Rise time	<12 ns/20 ns (high impedance/sparkgap)	
Very low jitter (solid switching)	<3 ns	N. Same
Overall dimensions	Depends on the number of stages	N.Y

Compact Marx generator - LIMaGe Low Inductance MArx GEnerator

The compact Marx generator is used to drive high-power microwave sources.

This compact Marx generator is designed for vertical positioning, but a design for horizontal positioning can be studied. It is equippped with a control command. It is a fully automated system with self diagnosis capabilities during firing.

Technical parameters

Pulse shape	"Square pulse"
Output voltage	400 kV (with 100 Ω impedance)
Flat top voltage	Up to ~100 ns
Fast rise time (no peaking stage)	<10 ns
Adjustable pulse repetition	Up to 80 Hz
Overall dimensions	~diameter 800 mm, height 1100 mm
Weight with enclosure	~180 kg
Gas insulation	SF6 replaced by nitrogen

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