

30 kV Nanosecond Pulse Generator



Montena develops repetitive high voltage pulsers for applications requiring nanosecond pulses, for example for plasma generation, electroporation or pulsed electric fields (nsPEF).

The applications are diverse in the fields of biotechnology, agri-food, dental and veterinary medicine, surface treatment, gas pollution control, and more.

Multiple generators can be synchronized to operate either in parallel or in a pos/neg configuration for symmetrical applicators.



SPECIFICATIONS	
Type	PGR-30KV-50R (-P or -N for positive or negative polarity)
Output voltage	0.5 to 30 kV, on a 50 Ohm load (positive or negative)
Load impedance	50 Ohm
Pulse rise time (10 - 90 %)	Typ. 30 ns
Pulse duration	60 to 150 ns, programmable
Pulse repetition frequency	up to 1 kHz @ 30 kV – 100 ns, up to 3 kHz @ 30 kV – 60 ns, programmable
HV pulse output connector	HVI-60K-S (proprietary)
Control interface	Modbus or ASCII based commands, RS485, sub-D connector
Synchronization interface	TTL signal (to trigger a single pulse or a burst of pulses)
Pulse monitoring	1:80 Analog current output monitoring, SMA-type connector
Power rating	180 - 264 Vac / 47 - 63 Hz / 3 kW
Dimensions (L x H x W)	580 x 280 x 450 mm

Other models available upon request.