

Airity

FLARE

High-voltage nanosecond pulser



Model: HVP 10k-01-10

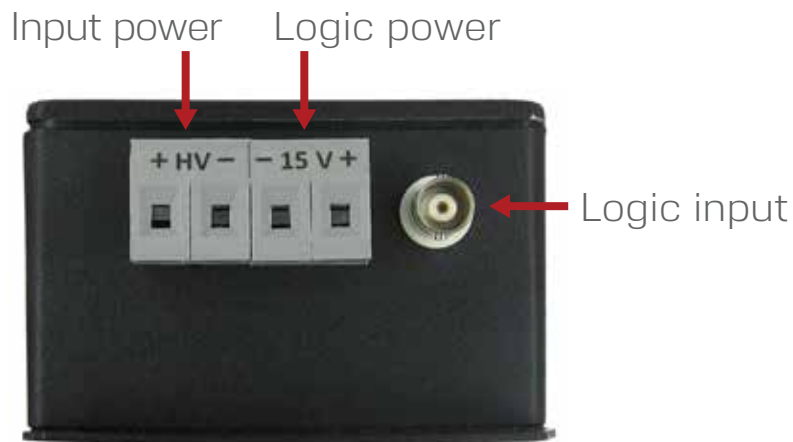
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Product overview

The Airity Flare high-voltage nanosecond pulsers are optimized for applications where system volume, cost, and high efficiency are important. The pulsers produce up to 10 kV pulses with optimal pulse width of 200–400 ns. Repetition frequencies of 50 kHz and above make it ideal for plasma generation, including low temperature air plasmas at ambient pressure.

Input requirements



Product Benefits

- High pulsed peak output voltage through an isolated output stage.
- Low input voltage: nominal gain of 100–130x.
- Adjustable pulse width range with fast rise time. Continuous input power guaranteed up to 10 W.
- Operable with power input from standard power supplies and logic input from a function generator
- Compact and cost-effective solution for point-of-load applications: no additional cabling or cooling or requirements.
- Low internal energy storage leads to safer operation and more efficient plasma discharges.

Specifications

Electrical

Input voltage: 10–90 VDC

Input current: Max 0.5 A

Input power: Max 10 W

Output Voltage: 0 to 10 kV

Pulse width: 200–400 ns

Repetition frequency: Max 50 kHz @ 5 kV

Logic input: 0–5 V pulse

Auxiliary supply input: +15 V, 0.2 A

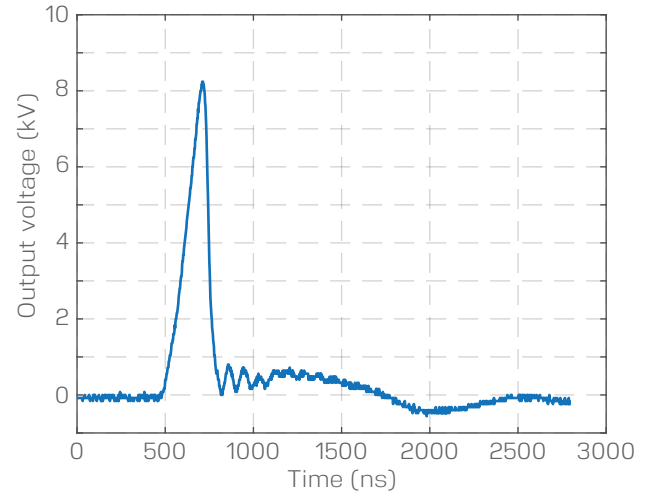


Figure 1. Pulse waveform for air plasma discharge. Input voltage 87 V.

Mechanical

Cooling mode: Passive

Dimensions: 150 mm x 90 mm x 60 mm

Weight: 1.25 kg

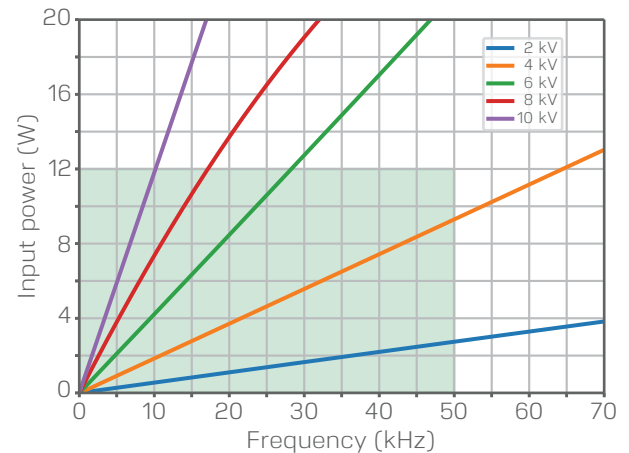


Figure 2. Safe operating range for continuous operation in green. The repetition frequency is limited by overall thermal dissipation so the pulser can operate at higher frequencies in burst mode.

We work with our customers to provide them with highly customized solutions. If your specs lie outside of what is mentioned above, we would love to investigate further with you.

Have a high voltage application?

Let us help you unlock its potential!



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