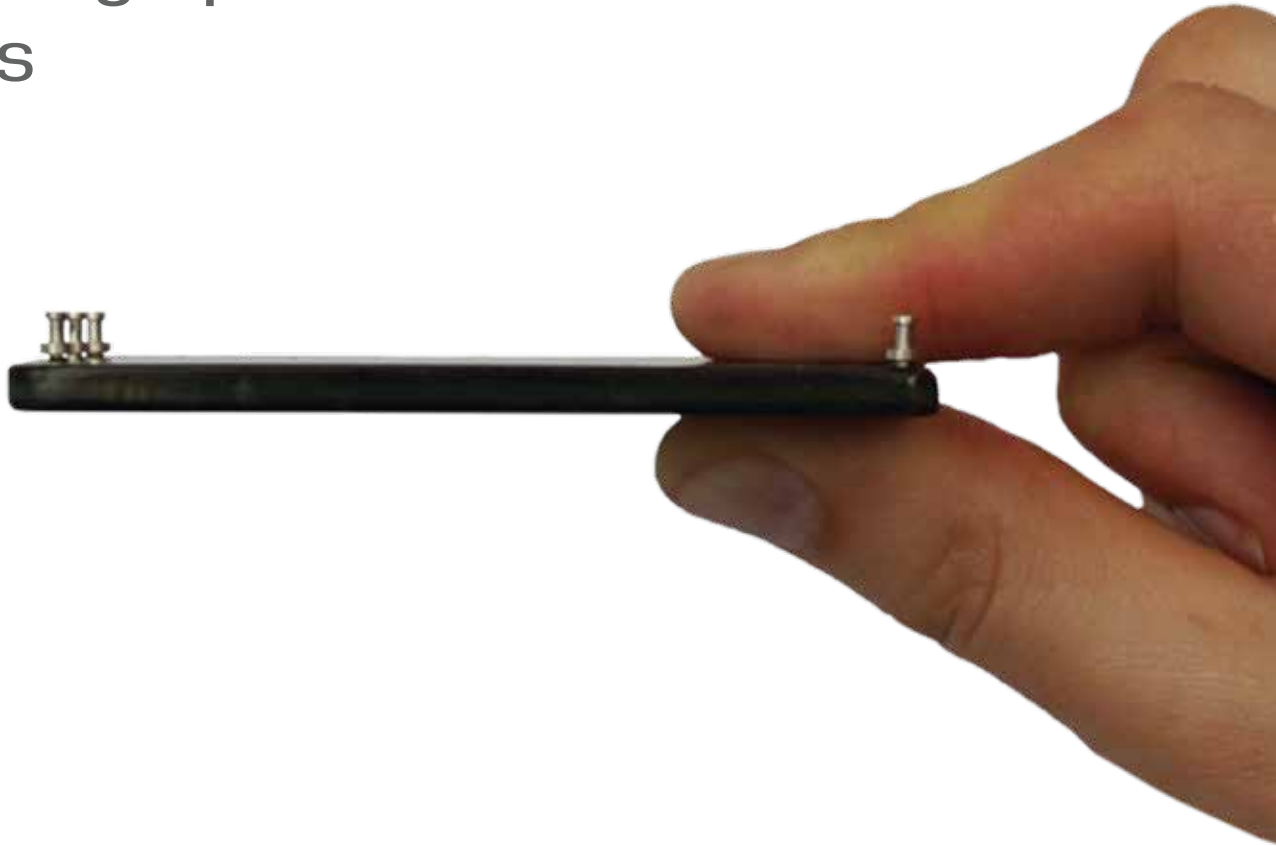


# Airity **EDGE**

The world's smallest  
high voltage power  
supplies



**[airitytech.com](http://airitytech.com)**

Airity Technologies is committed to bringing to market cutting edge power electronics that will unlock opportunities in high voltage power generation previously unimaginable.



# Better Performance & Many Advantages

## Product Overview

Airity Edge is a high voltage DC-DC power supply which leverages over 10 years of cutting edge research by Stanford PhDs. The smart design allows customers to stack modules together to achieve higher levels of output voltage and power.



## Product Benefits

- Ultra-fast rise times of a few  $\mu\text{s}$
- Higher power: Good for medium-high power, increased power through parallelization
- Efficiency as high as 90% means less cooling required and higher stability
- Super compact: Up to 100 W/in<sup>3</sup>, extremely portable
- Low ripple: Our circuit design offers low ripple with filters
- Low cost: PCBs and off the shelf components, fully automated assembly possible
- Less energy storage: Safer operation

# Specifications

## Electrical

Input voltage: 8-24 VDC

Input current: Max current 5 A

Max input current ripple: 100 mA

Output Polarity: Positive or negative

Output power: 100 W Max

Output Voltage: 1 kV to 10 kV

Output Voltage Accuracy: 1%

Voltage Regulation (Load): Proportional

Ripple and noise: <0.1%

Settling time: <1ms

Voltage Rise Time Constant: <1 ms

Voltage Decay Time Constant: Load dependent

## Other

Voltage Monitoring: Analog, user-selectable 0 to +10V, 0.1% accuracy

Field parallel operation: Up to 10 units can be connected in parallel, passive current sharing

Protection: Arc and short circuit protected

Environmental:

- Temperature Range: Operating: 0°C to 60°C
- Storage: - 40°C to 70°C
- Humidity: 95% RH, non-condensing

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!**



Info@airitytech.com

Tel : 650-521-3909, 734-709-0853

1505 Woodside Rd

Redwood City, CA 94061