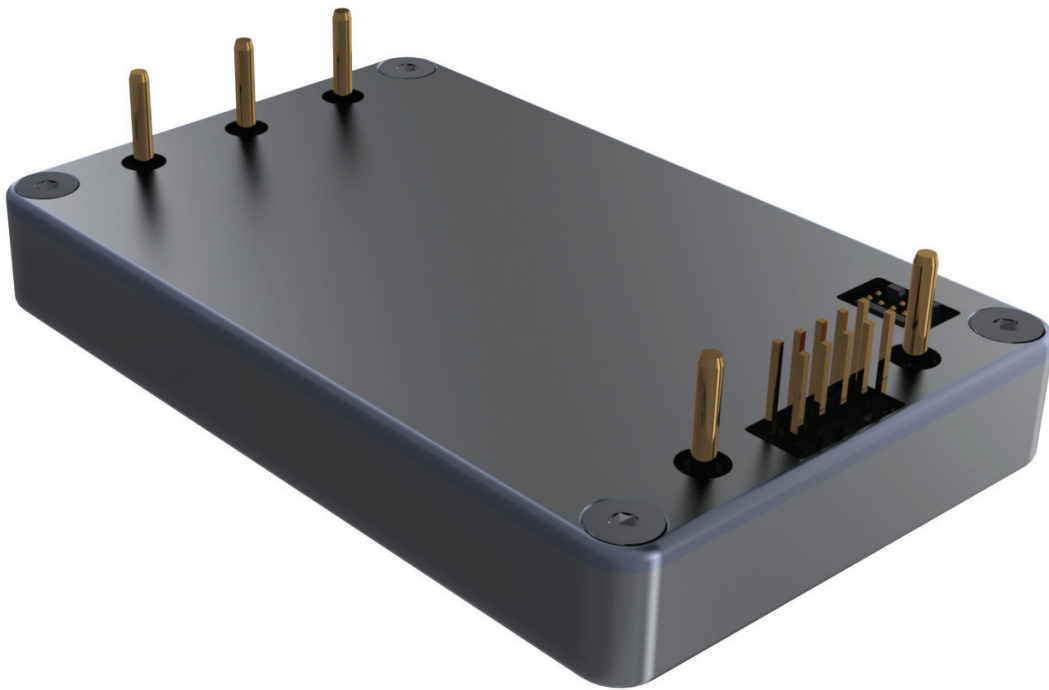


Airity

# EDGE

Compact high voltage  
power supply module



Model : RPC1206P

**[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 provides higher levels of output voltage and power in a highly compact form factor.



## Product Benefits

- Super compact, extremely portable
- Higher power: Good for medium-high power, increased power through parallelization
- Efficiency as high as 90% means less cooling required and higher stability
- Programmable output voltage and current
- Output voltage and current monitors
- Low ripple: Our circuit design offers low ripple
- Low energy storage

# Specifications

## Electrical

Input voltage: 24-40 VDC

Input current: Max current 10 A

Output polarity: Positive

Output power: 120 W max

Output voltage: Up to 600 V

Output current: Up to 600 mA

Output stored energy: 50 mJ

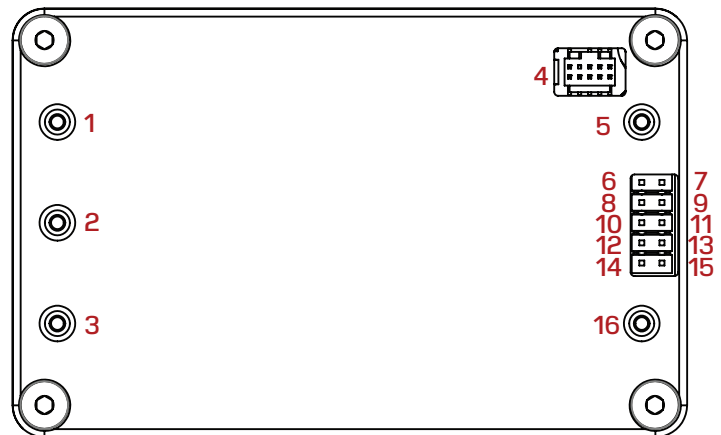
Output voltage accuracy: 1%

Voltage regulation (Load): 1%

Please inquire for more details!

## Pin Descriptions

1. GND
2. Enable
3. Input Positive
4. Programming Header
5. GND
6. Current Monitor
7. Current Setting
8. Voltage Monitor
9. Voltage Setting
10. Reference Voltage
11. GND
12. Fault
13. Enable
14. UART\_RX
15. UART\_TX
16. High Voltage Output



# Specifications

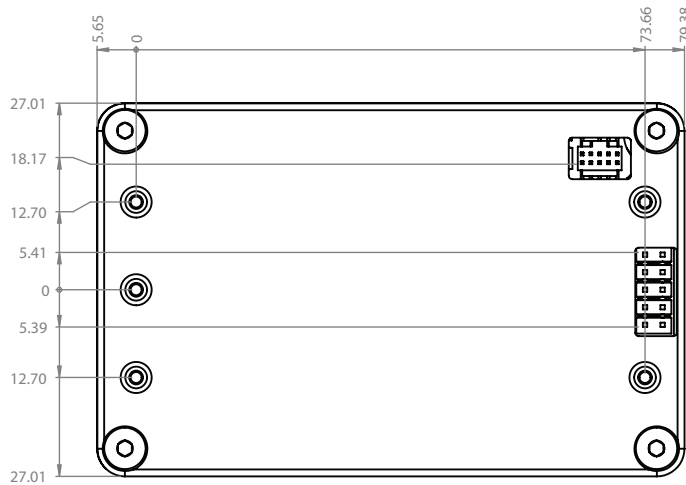
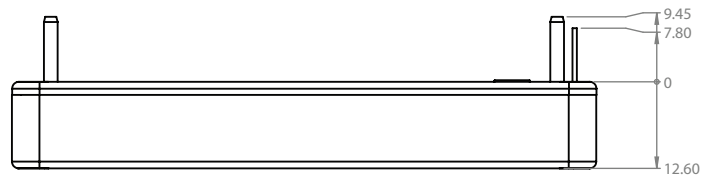
## Mechanical

Efficiency: up to 90%

Cooling mode: Enclosure-cooled\*

Dimensions: 85 mm x 54 mm

Weight: 110 g



Dimensions in millimeters

## Other

Voltage monitoring: Analog, 0 to +4 V, 1% accuracy

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.

\* External thermal management may be required to maintain safe enclosure temperatures

# Possible Applications

Electric propulsion  
Space propulsion  
High voltage electrophoresis  
Electrostatic chucks  
High voltage biasing  
Particle/ion accelerators  
Scanning electron microscopy  
And many more...

**Have a high voltage  
application?**

**Let us help you unlock  
its potential!**



**Airity**  
Technologies

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