

# API™ Powerficient™ 95 Series Power Supply

95% Efficiency and Power Boosting Capabilities in a Small Footprint



- **Superior efficiency:** Leverages the latest developments in power technology to deliver better than 95% efficiency – an average 15% improvement over comparable products
- **Highly customizable:** Can be tailored to meet specific application requirements
- **Significant power output:** Delivers 2.5 kilowatts of power to support a variety of applications
- **Impressive voltage boosting capability:** Offers 28V (input) to 270 (output) voltage boosting capability
- **4X greener than competitors' offerings:** Effectively powers applications with less energy consumption

The API™ Powerficient™ 95 Series Power Supply (PS9501) is a highly ruggedized, DC-DC power supply for defense, aerospace and automotive applications. The product delivers an impressive 2.5 kilowatts of power with efficiency greater than 95%, owing to recent advances in power research and development. The product's voltage boosting capabilities deliver an impressive 270V output from 28V input. The API Powerficient 95 is available off-the-shelf (COTS, GOTS) or can be tailored to meet a variety of requirements.

API Technologies is a leading supplier of specialty power supplies to the defense and aerospace markets. When power requirements are challenging or space constraints problematic, customers turn to API for assistance throughout the product development cycle, from design and prototyping, to engineering and testing, to manufacturing. To connect with a member of the API team regarding your specific requirements, email [sales@apitech.com](mailto:sales@apitech.com).

# About the API™ Powerficient™ 95 Series Power Supply

## Parameters

## Specifications

### Electrical

#### Input Voltage Range Testing:

Nominal Voltage	28V DC
Minimum Voltage	22V DC
Maximum Voltage	32V DC

#### Output Voltage:

Output Voltage	Output voltage continuously regulated to 270 V
Output Power	28V DC Input, 2.5 kW continuous over full Operating Temperature (-40°C to 70°C)
Overload Capability	28 V DC Input, 2.75 kW @25°C for 1 hr
Regulation	+/-5% worst case of Line, Load, and Operating Temperature
Efficiency	Low: 92% with 22V Input, 2.5kW load High: >97% with 32V Input, 2.5kW load

#### Protections:

Over Load and Current Limit	Predetermined level of protection from Over Load and Short in the Output = 130% of Current nominal output
Over Voltage	Predetermined level of protection from Output Voltage exceeding 115% of Voltage Output
Over Temperature	Max operational temperature inside the device does not exceed 105°C

### Mechanical

#### Physical Dimensions:

Length	278 mm
Width	196 mm
Height	256 mm
Front Panel Area	256 mm X 196 mm

#### Weight:

Overall Weight	28 lb
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### Environmental Factors

#### Temperature:

Operational	(-40°C to 70°C)
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#### Product Information

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