



Product Brochure

Aerostream™ 500W KPSU Power Supply

WP00-500A10

Field-Proven Performance

Wavestream's Aerostream™ Ku/Ka Power Supply Unit (KPSU) offers unmatched efficiency and performance for the challenging airborne environment. Aerostream™ products meet the requirements of RTCA/DO-160G, and ARINC specifications for commercial aircraft as well as MIL-STD requirements for military aircraft.

Features

- Airborne Qualified ARINC 836/792 Form Factor
- Designed for a Pressurized Environment
- Two Independent and Isolated 48V Supplies
- Fan and Fanless Cooling Options Available

Wavestream Advantages

What sets Wavestream products apart from traditional amplifier solutions is the innovative Spatial advantEdge™ technology. This unique patented technology allows for generation of higher output power in more efficient, and more compact product packages that are more reliable. Wavestream products are optimized for Linear operation, drawing less power when backed off to help save valuable energy resources. They generate less heat, and have superior heat sinking ensuring a higher Mean Time Between Failures (MTBF) for greater reliability and lower lifecycle maintenance costs.

Benefits

- Higher output power with less energy usage
- Proven reliability and efficiency
- Reduced life cycle maintenance costs
- Compact footprint to meet critical space and weight limitations



Aerostream™
500W KPSU Power Supply

Technical Specifications

Power Specifications

AC Power: 115 VAC 3-Phase

AC Frequency: 360-800 Hz

DC Power (Output): 500W
(max)

DC Voltage (Output): Two
Independent and Isolated 48V
Supplies

DC Load Regulation: +/- 1V

DC Ripple: < 200 mV

Power Factor: ≥ 0.98, Lagging

Efficiency: ≥ 90 %

Power Holdup: 30 ms at 1350 W

Protection:

- Over Voltage
- Over Current
- Short Circuit
- EMI Filtering
- Lightning Protected

Physical

Size: 11.0" L x 8.3" W x 4.6" H
(27.9 x 21.1 x 11.7 cm)

Form Factor: ARINC 836/792

Weight: 10.0 lbs max (4.54 kg)

Cooling: Forced Air optional

Cooling Duct/Spud: ARINC
A791, AS5131B36 Fitting

Operating Temperature

(Ambient Air): 5° F to +158°F
(-15° C to +70° C)

Relative Humidity:

100% Condensing

Shock & Vibration:

DO-160G, MIL-STD-810

Altitude:

15,000 ft above sea level
(operating)

Interfaces

Input Power: 5-pin MIL Circular
Aircraft Interface/M&C: 19-pin
MIL Circular, Ethernet, Discrete
Keyline

Tx Antenna Power: Keyed, 10-
pin MIL Circular

Rx Antenna Power: 10-pin MIL
Circular

Options

Fan Version

Base Model

WP00-500A10

About Gilat Wavestream

Gilat Wavestream sets the standard in the design and manufacture of next generation high power solid state amplifiers. Wavestream's Family of Ka, Ku and X-band Solid State Power Amplifiers (SSPAs), Block Upconverters (BUCs) and transceivers provide systems integrators with field-proven, high performance solutions designed for ground mobile and fixed, gateway and airborne satellite communication systems worldwide.

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