



Product Brochure

AeroStream™ 1500W KPSU Power Supply

WP00-1K5A10

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

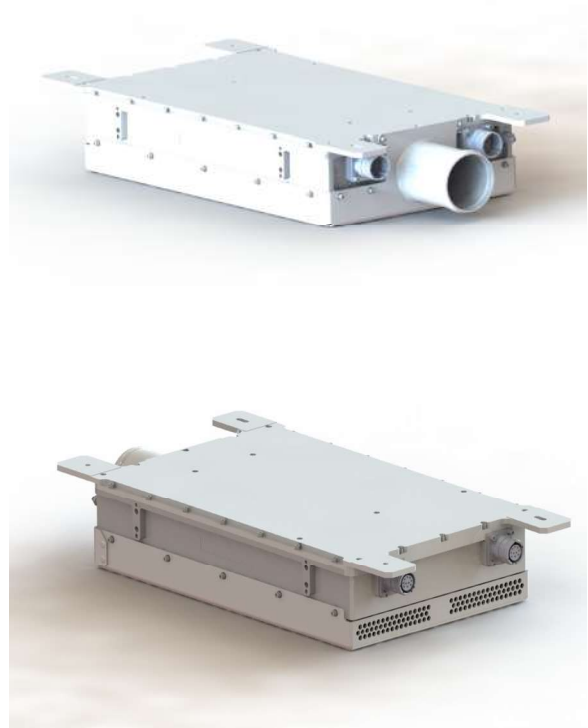
- Airborne Qualified ARINC 836/792 Form Factor
- Designed for a Pressurized Environment
- Two Independent and Isolated 48V Supplies
- Fan and Fanless Cooling Options Available

Wavestream Advantages

What sets Wavestream AeroStream™ products apart from our competitors is our proven track record for qualifying airborne equipment for Boeing and Airbus. Wavestream has delivered over 5,000 airborne qualified units to date and our actual field reliability far exceeds the predicted reliability.

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™
1500W KPSU Power Supply

Technical Specifications

Power Specifications

AC Power: 115 VAC 3-Phase
AC Frequency: 360-800 Hz

DC Power (Output): 1500W
(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 full load

Protection:

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

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

Physical

Size: 18.0" L x 9.1" W x 3.51" H
(46.0 x 23.0 x 8.2 cm)

Form Factor: ARINC 836/792

Weight: 20.0 lbs (9.1 kg)

Cooling: Forced Air, or Fan
Option

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)

Options

Fan Version

Base Model

WP00-1K5A10

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), Transceivers, and Power Supplies provide systems integrators with field-proven, high performance solutions designed for ground mobile and fixed, gateway and airborne satellite communication systems worldwide.

These items are subject to the Export Administration Regulations (EAR), 15 C.F.R. Parts 730-774, and may not be exported or transferred to any non-U.S. person, except as authorized by the U. S. Department of Commerce.

Contact Us

545 West Terrace Drive
San Dimas, California 91773 USA
T. +1 909 599 9080
F. +1 909 599 9082

www.wavestream.com
sales@wavestream.com

All registered trademarks are the property of their respective companies. This brochure is being provided for informational purposes only. The details contained in this document, including product and feature specifications, are subject to change without notice and shall not bind Wavestream to a specific product or set of features related thereto.

