

Programmable Power Solutions for Next-Generation Avionics Test Systems

Precision AC and DC power sources for qualification, certification and production testing in aerospace and defense applications.

TDK
In Everything, Better

Benefits for Avionics Test Engineers

TDK-Lambda programmable power solutions help test engineers validate avionics equipment and onboard power systems under realistic and repeatable electrical conditions. Whether simulating aircraft AC networks, testing DC power architectures or integrating power sources into automated qualification benches, TDK-Lambda provides the performance and flexibility required for demanding aerospace test environments.

With scalable AC and DC platforms, engineers can configure test setups for current program requirements while maintaining flexibility for future architectures such as more electric aircraft, electrified actuation and high-voltage DC distribution systems.



GAC SERIES
Programmable AC, DC and AC+DC Power Sources from 2 kVA to 60 kVA

- Single and three-phase output
- Up to 360 Vph-n; +/-510 Vdc _ Output frequency: DC, 16-5 kHz
- Up to 4 kVA 19” 1U format
- Arbitrary waveform, multiple interface, amplifier mode, integrated from 16Ht to 5kHz avionics testing RTCA/DO160, ABD100.1.8.1, MILSTD704



GENESYS+ SERIES
Advanced Programmable DC Power Supplies from 750 W up to 495 kW

- Up to 7.5 kW 19” 1U format
- Output up to 1500 Vdc, up to 7500 A
- CC, CV, CP operation mode, arbitrary waveform, fast speed and power sink option



Z+ SERIES
Bench to Rack DC Programmable DC Power Supplies

- 200, 400, 600, 800 W
- Output up to 650 Vdc, up to 72 A
- 2U rack mounted (up to 6 units) Front panel output socket



Key Values

- **Accurate aircraft power simulation**
  Support for 400 Hz and 800 Hz aircraft networks, DC architectures and Wild Frequency test scenarios.
- **Compliance-oriented testing**
  Designed to support demanding avionics and aerospace test requirements, including RTCA/DO-160, ABD0100.1.8.1 and MIL-STD-704.
- **Unified AC & DC test system integration**
  A broad portfolio of programmable AC and DC power platforms with a consistent control philosophy helps reduce integration effort in automated test systems.
- **Scalable Power Solutions**
  All programmable solutions offer power scalability to meet evolving application requirements, from low-power testing to high-power test environments.
- **High stability and repeatability**
  Low output ripple, high voltage stability and precise programmability enable reliable and repeatable test conditions.
- **Scalable from R&D to production**
  Modular platforms support early-stage development, qualification benches and full-scale production test environments.
- **100% TDK-Lambda Designed & Manufactured**
  Every programmable solution is designed and manufactured by TDK-Lambda, ensuring full control over hardware, firmware and future product evolution.
- **Long-term program support**
  Backed by TDK-Lambda's long-standing engineering expertise, 5-year warranty and manufacturing continuity designed for long lifecycle aerospace and defense programs.
- **Expertise for complex power tests**
  Direct access to specialists experienced in aerospace power conversion, transient simulation, multi-phase systems and high-power DC test environments.

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How TDK–Lambda Brings Value

TDK-Lambda enables avionics test engineers to build precise, scalable and lifecycle-stable power test environments for demanding aerospace and defense programs. With programmable AC and DC platforms, application expertise and long-term product availability, TDK-Lambda supports reliable testing from early development through qualification and production.

For more information on how TDK-Lambda can help you power your unique applications, visit our website or contact tle.powersolutions@tdk.com for technical support.

Coming Soon

Bidirectional DC Power Solutions
Supporting the next generation of bidirectional and electrified aerospace and defense platforms.



Your Distribution Partner: