

High-precision RoHS compliance for AC to DC power supplies



Article Overview

High-precision AC to DC power supplies can achieve RoHS compliance while maintaining stable, low-ripple output suitable for industrial, medical, and commercial applications.

RoHS Compliance

RoHS-compliant power supplies are designed to exclude or limit six hazardous substances: Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent Chromium (Cr6+), Polybrominated Biphenyls (PBB), and Polybrominated Diphenyl Ethers (PBDE) to levels below the maximum concentrations defined in the RoHS Directive . Leading manufacturers, such as Pioneer Magnetics and TDK-Lambda, ensure compliance with RoHS 6 standards and often adopt IPC-1751 and IPC-1752 material declaration standards to manage and verify material content . This ensures both European and Chinese RoHS requirements are met.

Precision and Performance

High-precision AC-DC power supplies are engineered to provide stable voltage and current outputs with minimal ripple, often using switching or digital control technologies. For example, TDK-Lambda's AC-DC switching supplies incorporate digital control to enhance efficiency, minimize EMI, and maintain tight voltage regulation, supporting applications that require precise power delivery . Some models also feature ultra-low switching ripple, comparable to battery-like clean voltage, whi...

Article Content

Jun 12, 2026

2026 RoHS, REACH, WEEE, Battery Compliance, Hazmat

RoHSGuide is the authoritative resource on RoHS, REACH, WEEE, Battery, and hazardous process materials. RoHSGuide explains

Sep 24, 2025

RoHS compliant power supply

Find your rohs compliant power supply easily amongst the 100 products from the leading brands (Delta,

Jan 02, 2026

Precision and accuracy in high voltage power

Our blog discusses why achieving both precision and accuracy in high voltage DC power supplies can be tricky for designers and

Oct 17, 2025

AC-DC Power Supplies and Electronic Loads by Kepco

Kepco's power supplies comply with all international safety EMI and EMC directives and most Kepco power supplies are CE marked.

Oct 08, 2025

Linear Power Supply

Optimize Your Workflow with a Linear Power Supply A linear power supply delivers ultra-stable, low-noise

May 02, 2026

Programmable Power

The AMETEK Programmable Power designs, manufactures, and markets precision, ac & dc programmable

Mar 09, 2026

DC Power Supplies

High-precision DC power supplies, from programmable, variable DC power supplies to specialized applications for ATE systems or

Aug 22, 2025

KEPCO, INC.: PRODUCT OVERVIEW

Product Overview - RoHS Compliant For a breakdown of Kepco's modular and instrument power supplies by parameter, please refer

Jul 19, 2026

ADI General RoHS Compliance Information

2. RoHS compliant package materials and terminal finishes ADI offers RoHS compliant solutions for most of its products. Material

Mar 15, 2026

RoHS Directive (EU) 2015/863 List of Compliant Products

March 2023 Document No. 700-710-115K Below is a list of products identifying their current availability of compliance with the RoHS

Feb 11, 2026

RoHS2 compliance of AC/DC Power Adapter

This page explains the RoHS Directive for AC/DC Power Adapter and switching power supplies. RoHS2 is currently in effect. If you

Feb 24, 2026

High Voltage Power Supply

Find the perfect high voltage power supply for semiconductor testing, insulation breakdown, and high-energy research. Get stable,

Apr 21, 2026

Precision Power Supply

Find the perfect precision power supply for ultra-accurate, low-noise testing. Get stable, high-accuracy DC

Jan 26, 2026

RoHS Compliant Power Resistors

A high power TO-220 style resistor package designed for high frequency emitter circuits in switching power supplies. Also used in

Jun 19, 2026

KEPCO, INC.: ROHS COMPLIANT DC POWER SUPPLIES/DC POWER SUPPLY: SERIES RTW

RTW are RoHS (Reduction of Hazardous Substances) compliant. Power factor correction (PFC) is standard, with the input power

Jul 16, 2026

RoHS and REACH | Cosel Europe GmbH

In the new Directive (2011/65/EU:RoHS2), the restricted substances and their tolerated maximum concentration values remain the

Nov 15, 2025

RoHS compliance of PULS standard devices

All PULS standard power supplies and supplementary devices published on our website fulfill the Directive 2011/65/EU for RoHS II.

Feb 27, 2026

KEPCO, INC.: ROHS COMPLIANT DC POWER SUPPLIES/DC POWER SUPPLY: SERIES RMW

They feature full safety compliance to international standards and have suppressed both conducted and radiated emission to FCC

Jun 04, 2026

Cincon: DC/DC Converter & AC/DC Power Supply Manufacturer

We design and manufacture industry standard, RoHS compliant, DC-DC converters, AC-DC power supplies and LED power

Mar 22, 2026

Accuracy and Precision in High-Voltage Power Supplies

Power rails for high-voltage applications often require tight load and line regulation with low noise. This article

Aug 16, 2025

RoHS Compliant Power Transformers

Compliance: They meet international standards, making them suitable for use in regions with strict environmental

Oct 02, 2025

GlobTek confirms compliance to BS EN IEC 63000:2018 for all power ...

GlobTek power supplies, ac adapters, power cords, wire harnesses, and lithium ion battery packs meet latest RoHS

Apr 25, 2026

ITE Power Supplies RoHS Compliant Integrated Power Designs

Integrated Power Designs has a wide range of AC/DC & DC/DC power supplies from 25W to 400W for your Communication,

Nov 01, 2025

High Voltage Power Supplies | High Voltage Power

High voltage power supply is a power supply that converts low AC/DC voltage into high DC voltage such

Oct 18, 2025

DC Power Supplies

We have a wide range of products, from palm-sized precision DC power supplies to benchtop sizes and high-power

Sep 17, 2025

P-DUKE Technology | High-Performance Power Solutions Innovator

P-DUKE is a Taiwan-based technical leading supplier and manufacturer with a global presence in the power conversion industry. We

Jan 06, 2026

RoHS power supply

Find your rohs power supply easily amongst the 250 products from the leading brands (Sanxing Electric, SARRALLE, Bourn And

Feb 02, 2026

AC-DC Acopian's Switching Power Supplies RoHS Compliant

Acopian announced that the 1U Switching Regulated 720W AC-DC Power Supply family is now RoHS Compliant and

Jun 06, 2026

RoHS Compliant Power Transformers

Considerations When selecting RoHS Compliant Power Transformers, consider the following: Initial Costs: These

Jul 06, 2026

AC DC Power Supplies & Converters | TDK-Lambda Americas

Browse our wide range of AC-DC, DC-DC, Programmable and High Voltage power supplies, DIN rails and EMI filters, as well as

May 25, 2026

RoHS Directive 2011/65/EU and any future amendments, addendum

7(c)-I Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g.

Jul 03, 2026

Bench Power Supply

Find the right bench power supply for your lab. Our guide covers key specs, linear vs. switching, and helps you choose the perfect

Aug 07, 2025

How to design an accurate DC power supply

How to Design an Accurate DC Power Supply Shaury Anand Test and measurement applications like battery test, electrochemical

Sep 10, 2025

KEPCO, INC.: ROHS COMPLIANT DC POWER SUPPLIES/DC

RTW models can be mixed with your choice of Kepco modular power supplies (e.g., AE, AK, AEK, HWS, PAT, PRM, PTR, RKE,

Jun 27, 2026

RoHS Power Supply Guide: How to Choose the Right One

A practical, no-fluff guide on RoHS-compliant power supplies—what they are, when compliance matters, key specs to

May 22, 2026

AC & DC Power Supplies | Tahoe Series

Looking for a high-power AC and DC power source? The California Instruments Tahoe Series has got you covered, with power

Nov 10, 2025

RoHS and REACH Approved Electronic Components | DigiKey

This blog will dig into the RoHS and REACH regulations, their effect on electronic design engineers, and how DigiKey

Contact Us

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