

# POWERING YOUR CABIN INTERIOR



# TDI POWER SOLUTIONS

TDI Power's core competency is our ability to customize power conversion products to demanding customer and industry standards and deliver a highly reliable product that meets market driven cost targets. With more than 20,000 units currently flying on over 600 commercial aircraft, TDI has established itself as a valued supplier to the world's airlines.

## LRU DC Converters

- Input: 115Vac, 360-900Hz
- Output: 28Vdc
- Power: 50-300W
- 200ms Hold-up
- Qualified to RTCA/DO-160

## Board-level Multi-output Converters for IFE

- Open frame to fit into LRU assembly
- Input: 115Vac, 360-900Hz
- Output: 3.3, 5, +/- 12, 28Vdc
- Power: 5-100W
- 200ms Hold-up
- Qualified to RTCA/DO-160

## Inverters & Frequency Converters

- 115Vac, 60Hz seat power for PEDs
- Regulated AC power for cabin systems
- 400Hz inverters for back-up power

## High-power DC Systems

- Modular configurations up to 1KW
- Rack mounted beneath aisle floor
- Integrated forced-air cooling



Multi-output power supply for IFE





## AIRCRAFT LIGHTING

- Power Supplies for Cabin LED Lighting
- Customized to fit existing florescent space
- DO160 qualified
- Fanless passive cooling
- Lightweight chassis

**ANTENNA**



Multi-output power supply for IFE

**SEAT ACTUATION**

**PED POWER**

# POWER TO THE SEAT

TDI Power offers a reliable and cost effective solution for passenger power needs with our Airborne In-seat Power Supply. The supply delivers sufficient 115Vac 60Hz power from a standard airborne AC input for a typical 3-seat configuration as well as three 5Vdc outputs. When used as part of TDI's Airborne Power Management System, multiple devices may be used throughout the aircraft to ensure all passengers have access to seat power without the use of ancillary equipment such as MCUs.

- 250 VA total power (150VA per outlet)
- High efficiency
- Lightweight
- Passive cooling



# TDI POWER SUPPLIES ARE INSTALLED OR DESIGNED INTO THE FOLLOWING AIRCRAFT:

## Airbus

- A318
- A320
- A330
- A350
- A380

## Boeing

- 717
- 737
- 747
- 757
- 787

## Embraer

- E190

## RELIABILITY / SAFETY / PERFORMANCE

- RTCA/DO160D/E/F
- Boeing D6-44588
- Airbus ABD0100
- NAVSO component derating criteria
- HASS and HALT tested
- FMEA



## ABOUT TDI POWER

TDI Power is a leading, private manufacturer of highly reliable and technologically advanced electrical power solutions. Built on a 50 year history of engineering innovation, TDI is recognized as a market driven organization that focuses on our competitive strengths to meet our customers' needs. Our diverse capabilities allow us to serve the automotive, military/aerospace, industrial, medical and test and measurement markets. Our commitment is to deliver high-end, problem solving solutions where and when needed.

From our state-of-the-art shop floor manufacturing control system, to our philosophy of conservative design practices, TDI Power's very structure is built around creating the highest possible quality products. Design Verification Testing, Highly Accelerated Life Testing (HALT), Highly Accelerated Stress Screening (HASS) and internal labs for solar and EMI testing add to our analytical capabilities and dedication to continuous improvement, higher reliability, and lower overall program costs.

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