

Airborne DC Power Characteristic Test System **PDG 08C05**



- MIL-STD-704
- RTCA/DO-160
- HB 20326.8
- GJB181

Features

- > Support harmonics output
- > Support ripple closed-loop test
- > Full-power four-quadrant power supply
- > Adaptive remote compensation function
- > Wide frequency range: DC ~ 200 kHz
- > Max. output power 4 kW
- > Voltage and current monitoring and protection
- > Ethernet RJ45 interfaces for PC remote control and printing test reports
- > Built-in arbitrary waveform generator for any complex waveform editing
- > Support DC output, Max. voltage 80 V, Max. current 50 A

Introduction

The PDG 08C05 Airborne DC Power Characteristic Test System supports DC 14 V, 28 V test, in compliance with MIL-STD-704F, DO160 S16/S18, HB 20326.8, GJB 181-86 and GJB 181A/B. Its total voltage harmonic distortion is below 0.3% under all load conditions, with frequency from DC to 200 kHz.

Adopted real-time processor technology, the system is equipped with high-performance PC and Corelab test software. It enables arbitrary waveform editing to simulate complex waveforms, and provides preset waveforms and EMC and aerospace standard test items. The software also supports automatic test report generation.

Application Areas



Technical Parameters

Max. Output Power	4 kW
Max. DC Voltage	± 80 V
Max. DC Current	± 50 A
DC Voltage Accuracy	$\pm (0.2\%+0.2\% \text{ F.S.})$
DC Current Accuracy	$\pm (0.2\%+0.5\% \text{ F.S.})$
Voltage/Current Setting Resolution	0.01 V/ 0.01 A
Voltage/Current Display Resolution	0.01 V/ 0.01 A
Harmonics Voltage	0 V ~ 20 V
Harmonics Voltage Setting Resolution	0.001 V
Harmonics Voltage Display Resolution	0.001 V
Harmonics Frequency	1 kHz ~ 50 kHz (higher frequencies are available on request)
Harmonics Frequency Setting Resolution	0.001 Hz
Harmonics Frequency Display Resolution	0.001 Hz
Total Voltage Harmonic Distortion (THDv)	$<0.3\%$
Ripple Noise	$V_{PP} \leq 0.2$ V
@20MHz bandwidth	$V_{rms} \leq 0.05$ V

General Parameters

Protection	Overcurrent, overvoltage, undervoltage, overpower, overtemperature protection
Display Screen	5.7" TFT touch screen
Power Input Interface Type	32 A industrial circular connector
Control Port Communication Interface	Ethernet LAN (RJ45 interface)
Working Power	AC 380 V, 50 Hz/60 Hz
Grounding Connection	Flat grounding wire
Front/ Rear Panel Wiring Terminal	$\Phi 6$ terminal (100 A)
Dimension	600 (W)*1,225 (H)*900 (D) mm
Weight	Approx. 148 kg (including power supply)
Ambient Temperature	15 °C ~ 35 °C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

Power Cord, User Manual, Test Cables, Flat Grounding Cable

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