



Programmable AC/DC Power Source

PPS 45C10

— Features

- MIL-STD-704
- HB 20326.1~8
- GJB181
- RTCA/DO-160G S16
- RTCA/DO-160G S18

- > In compliance with HB 20326, MIL-STD-704 and GJB181.
- > Output AC/ DC power supply. Max. AC 450 Vrms, 105 A, Max. DC 636V, 105A.
- > Output power 20kW
- > HDMI interface for external display
- > Full power four-quadrant power supply with feedback
- > Wide frequency DC-200KHz
- > Support 3-phase and 1-phase output
- > Support harmonics test
- > Support frequency/amplitude modulation
- > Built-in arbitrary wave editor, arbitrary waves can be edited freely.
- > Equipped with voltage/current monitoring and protection function
- > Support ripple tests.
- > All-in one design, reliable quality and easy operation.
- > Ethernet, RJ45 interface, for PC remote control, automatic generation of test reports

— Introduction

The PPS 45C10 programmable AC/DC power source features high voltage/current dynamic range and is well suited for testing in aviation sector. The PPS 45C10 output voltage is guaranteed to have a distortion rate of less than 0.1% regardless of the load, its frequency ranges from DC to 200 kHz.

The PPS 45C10 is not only based on real-time processor technology, but also comes with a built-in high-performance PC and the test software Corelab, which has arbitrary waveform editing capabilities and can easily simulate a variety of complex waveforms. Corelab provides users with a wide range of preset waveform segments and a large number of standard test items in compliance with electromagnetic compatibility and aerospace standards, meanwhile, Corelab has function of test report generation report.

— Application



Technical Parameters

Output Power (KW)	Max. 20 kW
Max. AC Voltage (V _{rms})	450 Vrms
3-phase Max. Current (A _{rms})	35 Arms
1-phase Max. Current (A _{rms})	105 Arms
Max.DC Voltage (V _{DC})	± 636 V
Max. DC Current (A _{DC})	±105 A
Harmonics Voltage	0 ~ 10 Vrms
Harmonicas Frequency	1Hz ~ 10 KHz
FM Modulation	1Hz ~200 Hz
AM Modulation	0 ~ 100%
Output Voltage Distortion Rate	<0.3%
Phase Angle Accuracy	1°
Setting Step (V)	0.01 V
Ripples (20HZ ~ 20MHZ)	V _{pp} ≤1 %FS + 100 mV V _{rms} ≤0.3 %FS + 50 mV
Protection	Over-current protection, over-voltage protection and undervoltage protection.

General Parameters

Display Screen	15.6 inches touch screen
Power Input Interface	63A-6H industrial aviation connector plug
Working Power	AC380V, 50Hz/60Hz
Grounding Connection	Flat grounded cable
Test Ports	32A banana plug & 100 A solid port
Dimension	22U
Weight	Approx. 192 kg
Ambient Temperature	15°C ~ 35°C
Relative Humidity	25% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

**Standard
Accessories**

User manual, Test cables, Power cord, Grounded cable

SUZHOU3CTEST ELECTRONIC CO., LTD

Address: No. 99 E'meishan Road, SND, Suzhou, Jiangsu Province, China
Sales Email: globalsales@3ctest.cn Service Email: service@3ctest.cn
Tel: + 86 - 512 - 68077192 Web: www.3c-test.com



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