FLUKE®
Calibration

Instruction Sheet

Model 52120A/COIL12V

12-Volt DC Coil Supply

Introduction

The 52120A/COIL12V 12-Volt DC Coil Supply (the Supply) is used to supply power to the fan in the 52120A/COIL6KA and the 52120A/COIL3KA multi-turn coils (the Coil).

How to Connect the Power Supply

⚠Warning

To prevent personal injury:

- **Use the Product indoors only.**
- **Do not use the Product around explosive gas, vapor, or in damp or wet environments.**
- **Use the Product only as specified, or the protection supplied by the Product can be compromised.**
- **Do not use, and disable the Product if it is damaged.**
- **Use only specified replacement parts.**

To supply dc voltage to the Coil:

1. Make sure the applicable interchangeable ac blades are attached to the input of the supply for the mains outlet type.
2. Put the ac blades into the mains outlet.
3. Put the dc connector of the Supply into the dc input jack on the rear-panel of the Coil. See Figure 1.

Note

When the connector is in the dc input jack, the built-in power cord of the Coil is disabled.

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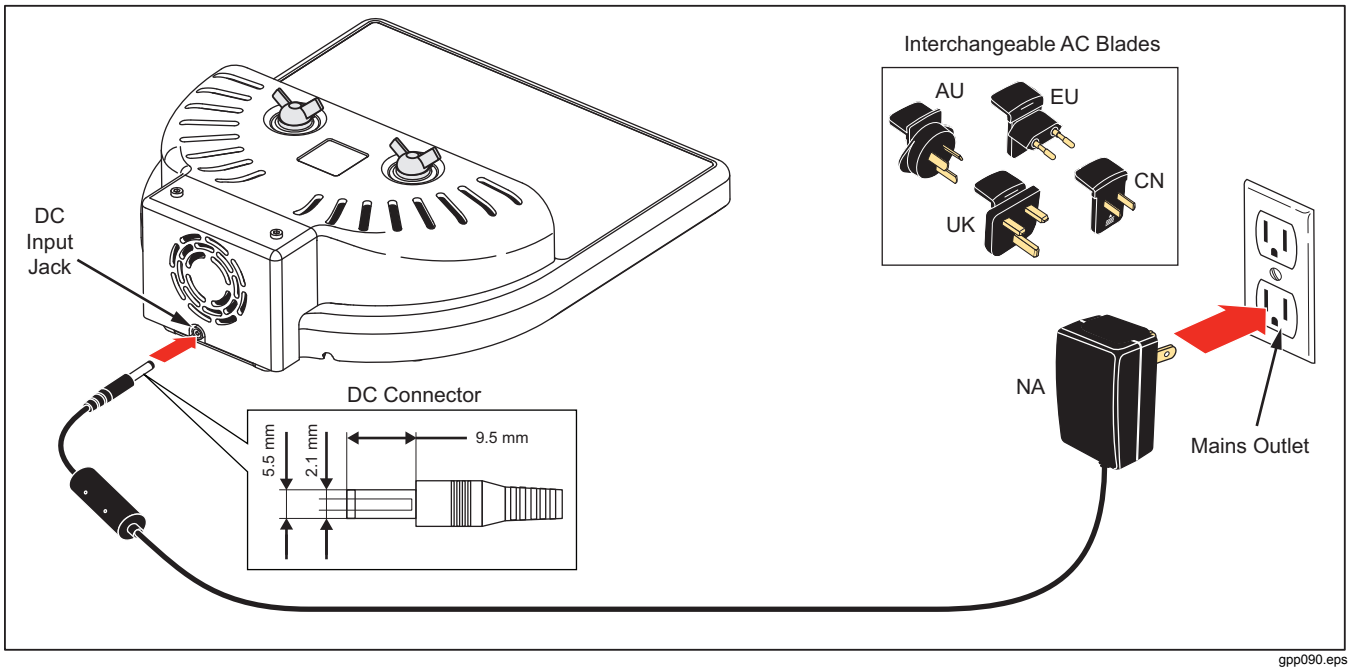


Figure 1. DC Supply Connections

Specifications

Temperature
- Operating ..... 0 °C to 40 °C
- Storage ..... -10 °C to 70 °C

Humidity
- Operating ..... 20 % to 60 %
- Storage ..... 10 % to 90 %

Input
- Voltage ..... 90 V to 264 V ac
- Frequency ..... 47 Hz to 63 Hz
- Current ..... 1.0 A ac rms

Output
- Voltage ..... 12 V dc
- Current ..... 2.5 A dc
- Power ..... 30 W
- Ripple ..... 300 mV p-p
- Efficiency Level V

DC Plug Type ..... Center positive ⊖-C-⊕

Protection
- Over-Voltage ..... Protect through primary circuit IC
- Short Circuit ..... Output shut down and auto restart

Safety and Compliance
- Isolation
  - Voltage (input to output at 10 mA for 1 minute) ..... 3,000 V ac (4,242 V dc)
  - Resistance (input to output at 500 V dc) ..... 100 MΩ
- EMI/EMC ..... FCC part 15B, EN55022B, CE
- Leakage Current ..... 0.25 mA max.
- RoHS ..... Compliant

Certifications ..... c UL us LISTED, FC, CE