



# High Voltage DC Power Supply

Part Number FW01-10101-10

## PRODUCT DESCRIPTION

The High Voltage DC Power Supply (HVDCPS) is a 2400 Watt, 0 to 200 Volts Direct Current (VDC), 0 to 12 Amperes Direct Current (ADC) single-output analog-controlled instrument. Designed to meet the requirements of commercial and military Automated Test Equipment (ATE) systems, the FW01-10101-10 HVDCPS is ideal for solving obsolescence and enhancing the performance of new or pre-existing ATE.

The instrument has been designed with several notable features:

- Autotracking Over Voltage Protection
- Internal or External Sense Line Selection
- Constant Voltage and Constant Current Modes of Operation
- Industry-Standard 19 Inch Rack Mount with 2U Form-Factor
- EMI compliance IAW MIL-STD 461B, Part 2, CE03, and RE02
- Robust External Analog Control Method of Output Voltage and Current



**Science and Engineering  
Services, LLC**

RELIABLE DESIGN

19 INCH RACK FORM FACTOR

RUGGED ARCHITECTURE

## SPECIFICATIONS

### ELECTRICAL

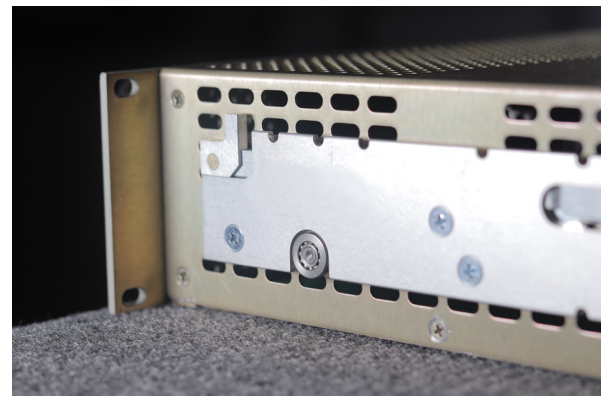
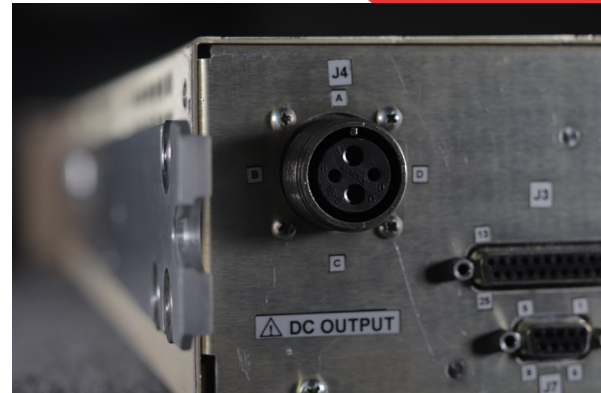
- AC Input:
  - 115 Volts Alternating Current, 60 Hz, 40 Amperes Maximum
- Constant Voltage or Constant Current Modes of Operation
- Output Voltage Range: 0 to 200 VDC with  $\pm 2.4$  VDC accuracy
- Internal or External Sense Lines (Selectable)
- Remote Analog Voltage:
  - Control: 0 to 4.5 VDC = 200 VDC Output
  - Accuracy:  $\pm 1\%$  of Full Scale
  - Readback: 0 to 4.5 VDC = 200 VDC Output
  - Accuracy:  $\pm 1\%$  of Full Scale
- Remote Analog Current
  - Control: 0 to 4.5 VDC = 12 ADC Output
  - Accuracy:  $\pm 1\%$  of Full Scale
  - Readback: 0 to 4.5 VDC = 12 ADC Output
  - Accuracy:  $\pm 1\%$  of Full Scale
- Output
  - Voltage Range: 0 to 200 VDC with  $\pm 2.4$  VDC accuracy
  - Current Range: 0 to 12 Amperes DC
  - Power Rating: 2400 Watts
  - Ripple: less than 130 mVpp
- Load Regulation:  $\pm 0.1\%$  CV or CC Mode with constant Rated Load
- Autotracking Over Voltage Protection
- Output and Sense Lines are Opened/Closed with Relays
- Time Delay from Power-On to Output Stable: 5 Seconds Maximum

### ENVIRONMENTAL

- Fungus: Resistant
- Internal Fans with exhaust to the rear
- Storage Temperature Range: -40 to +85 °C
- Operating Temperature Range: -10 to 50 °C (Rated Load)
- Humidity Range: 0 to 95% Relative Humidity, Non-Condensing
- Electromagnetic Compatibility
  - Immunity: EN 61326-1 Industrial Environment
  - Emissions: CISPR11, Class A (Class B Conducted)
- EMI: Conducted and Radiated Emissions per MIL-STD-461B, Part 2, CE03 and RE02

### MECHANICAL

- Weight: 29.7 lbs
- Dimensions: 3.45" H x 19" W x 23.68" D with Slides
- AC Input Connector J1: MS3102A-22-2P
- Control Signal Connector J3: DB-25S
- DC Output & Sense Connector J4: MS3102A-16-9S
- Relay Control Connector J7: DB-9S
- Industry-Standard 19 Inch Rack Mount with 2U Form-Factor



### SERVICES AVAILABLE

- Technical Support
- Installation and Setup
- Maintenance
- Application Support
- Hardware and Software Support
- Guaranteed Warranty

For More Information, Contact:

Science and Engineering Services, LLC  
110 Stillwater Circle  
Bonaire, GA 31005  
(478) 293-4798  
www.ses-i.com

