

# FS40A-PS

## FLOOD SOURCE POWER SUPPLY



### DESCRIPTION

The FS40-PS power supply allows fine adjustment of all instrument parameters for achieving a wide range of beam profiles; no additional electronics are required. All adjustable parameters are displayed on the large TFT display with touchscreen. All settings can be manually adjusted or can be stored and recalled automatically after unit switch on. The unit also features a built in timer and automatic standby mode. The FS40-PS can be supplied as a full width 19" rack mounting unit (3U height) or free standing. Unit can be remotely controlled via one of available interfaces. Unit also provides remote control of beam energy, emission current, focus and extractor voltages using analog interface. The unit is equipped with autosave function (the device save your parameters, preset and apply them automatically after restart).

### APPLICATION

The FS40-PS power supply is designed for use with the FS40A1 Electron Flood Sources which are used for charge neutralization of insulator and semiconductor samples in XPS/AES and SIMS applications.

### TECHNICAL DATA

Supply voltage	100 - 240 V, 50-60 Hz (power consumption max 70 W)
Beam energy (low energy range)	0.01 - 50 eV, resolution 0.01 eV
Beam energy (high energy range)	50 - 1000 eV, resolution 0.1 eV
Emission current	1 - 1000 $\mu$ A, resolution 0.1 $\mu$ A
Focus voltage	300 - 1000 V, resolution 0.1 V
Extractor voltage	0 - 150 V, resolution 0.1 V
Analog inputs	4 (0 - 10V)
Timer	dual mode timer 0 s - 99 h 59 m
Communication interface	RS232/485, Ethernet
Communication protocol	MODBUS-TCP
User interface	7" TFT display with touchscreen, digital encoder
Interface languages	English, German, Polish
Dimensions	483 × 133 × 435 mm (W×H×D), 19" rack mountable or alone
Weight (approx.)	5.2 kg



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