XANTREX

XFR600-4

The Xantrex XFR600-4 is a high-performance 2400-watt DC power supply offering precise 0 to 600 VDC output and up to 4 A of current in a compact 2U rackmount chassis. Known for its high reliability, analog and digital control options, and robust regulation characteristics, it is ideal for demanding research, industrial, and automated test applications.

SPECIFICATIONS

General

Display	Dual 3.5-digit LED displays for voltage and current
Warranty	5 Years

Physical

Power Supply	190-250 VAC, 47-63 Hz, single-phase or three-phase
Operating Temperature	0 to 50 °C °C
Dimensions (W×H×D)	482.6 mm × 88.9 mm × 514.4 mm mm
Weight	15 kg kg

Output Ratings

Output Voltage Range	0 to 600 VDC
Output Current Range	0 to 4 A
Maximum Output Power	2400 W
Remote Sense Compensation	Up to 5 V drop per line

Regulation

Voltage Line Regulation	0.05% of Vmax + 2 mV
Voltage Load Regulation	0.05% of Vmax + 5 mV
Current Line Regulation	0.1% of maximum output current
Current Load Regulation	0.1% of maximum output current

Noise & Ripple

Output Voltage Ripple (RMS)	150 mV
Output Voltage Ripple (p-p)	500 mV
Output Current Ripple (RMS)	5 mA

Performance

Transient Response Time	<1 ms
Voltage Temperature Coefficient	0.02% of maximum output voltage per °C
Current Temperature Coefficient	0.03% of maximum output current per °C

User Interface & Readback

Voltmeter Accuracy	±1% of max voltage + 1 count
Ammeter Accuracy	±1% of max current + 1 count

Programming & Control

Analog Programming Scale (Voltage)	0-5 VDC or 0-10 VDC
Analog Programming Scale (Current)	0-5 VDC or 0-10 VDC

Protection

Overvoltage Protection (OVP) Range	10 to 660 VDC

AC Input

Nominal Input Current (Single Phase)	19 A RMS @ 200 VAC
Nominal Input Current (Three Phase)	11 A RMS @ 200 VAC

Physical & Mechanical

Cooling Method	Internal fan forced air cooling, rear exhaust
Rackmount height	2U (EIA standard)

Environmental

Storage Temperature Range	-40 to +85 °C
Operating Humidity	0 - 90% RH (non-condensing)
Storage Humidity	0 - 95% RH (non-condensing)
Operating Altitude	up to 2000 m (6562 ft)
Storage Altitude	up to 3000 m (10000 ft)

Input Specifications

AC Input Voltage Range	190 - 250 VAC (single or three phase)
AC Input Frequency	47 - 63 Hz

Programming & Monitoring

Analog Programming Linearity	0.1% of maximum output
Remote Shutdown Input	TTL-compatible or contact closure

Operating Modes

Operational Modes	Constant Voltage (CV) / Constant Current (CC)

Compliance

Safety Certifications	CSA C22.2 No. 1010.1, UL 3111-1
EMC/EMI Compliance	FCC Part 15 Class A, CE

User Interface

Front Panel Controls	10-turn voltage and current potentiometers, OVP adjustment trimpot, standby switch, preview switch

Protection & Isolation

Maximum Output Floating Voltage	±600 VDC

Interfaces

Optional Interfaces	GPIB (IEEE-488.2) / RS-232 (via M9C card), LXI / Ethernet (via M130 card)

TECHNOLOGY

Switch-mode DC Power Supply

APPLICATIONS

Test and Measurement, Automated Test Systems (ATE), Burn-in, OEM integration

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