ORENSEN (AMETEK)

XT Series - 60W

The Sorensen (Ametek) XT Series is a 60-watt programmable linear DC power supply designed for benchtop and system integration applications. Featuring very low noise and ripple, excellent line and load regulation, and fast transient response, the XT Series provides high-performance, clean linear power in a compact quarter-rack package.

SPECIFICATIONS

General

Interfaces	Analog programming (standard); GPIB (via optional M9B card), RS-232 (via optional M9C card)
Display	Dual 3.5-digit LED digital meters for voltage and current

Physical

Operating Temperature	0 to 50 °C °C
Dimensions (W×H×D)	107 mm × 132 mm × 297 mm mm
Weight	4.3 kg kg

Output Specifications

Maximum Output Power	60 W
Output Modes	Constant Voltage (CV) or Constant Current (CC)
Line Regulation (Voltage)	0.01% + 2 mV
Line Regulation (Current)	0.01% + 2 mA
Load Regulation (Voltage)	0.01% + 2 mV
Load Regulation (Current)	0.01% + 2 mA
Output Ripple and Noise (Voltage)	1 mV RMS
Output Ripple and Noise (Current)	2 mA RMS
Transient Recovery Time	< 50 µs to within 15 mV of nominal following a 50% to 100% load change
Maximum Remote Sense Compensation	0.5 V per lead (1.0 V total)

Control & Interface

Series/Parallel Configuration Capacity	Series or parallel connection of multiple units is supported

Physical Characteristics

Form Factor	Quarter-rack wide, benchtop or rack-mountable

Environmental and Safety

Safety Agency Approvals	CSA certified to CSA C22.2 No. 1010.1, CE marked
Cooling System	Convection cooled

Model Configurations

XT 15-4 Output Rating	0-15 V, 0-4 A
XT 20-3 Output Rating	0-20 V, 0-3 A
XT 30-2 Output Rating	0-30 V, 0-2 A
XT 60-1 Output Rating	0-60 V, 0-1 A
XT 120-0.5 Output Rating	0-120 V, 0-0.5 A
XT 250-0.25 Output Rating	0-250 V, 0-0.25 A

Power Requirements

AC Input Voltage Range	115 VAC ±10% (standard); 100, 220, 230, 240 VAC options
AC Input Frequency Range	47-63 Hz

Environmental

Storage Temperature Range	-40°C to +85°C

Safety & Isolation

Output Isolation to Chassis	300 VDC maximum

Options

Digital Programming Interface Options	M9B (GPIB), M9C (RS-232)

Controls

Front Panel Controls	10-turn voltage and current potentiometers

Power Input

Maximum Input Current	1.2 A RMS @ 115 VAC / 0.6 A RMS @ 230 VAC

Display & Metering

Voltage Meter Accuracy	±(0.5% of reading + 1 digit)
Current Meter Accuracy	±(0.5% of reading + 1 digit)

Operation

Warm-up Time	30 minutes

TECHNOLOGY

Linear

APPLICATIONS

Benchtop & System Programmable DC Power

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