

ARTISAN®
TECHNOLOGY GROUP

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Artisan Technology Group
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PROCESS TECHNOLOGY

BENCHTOP DESIGN WITH UP TO 2,400W

The high-performance air cooled DTX-2400 Power Supply brings processes to the next level, delivering accurate, low ripple DC power in a sealed air-cooled design.

The DTX-2400 Series uses switch-mode technology with high-efficiency silicon carbide (SiC) components and synchronous rectification (SR) to reduce process energy consumption and deliver 2,400 W DC power in a compact design.

With its integrated user interface featuring a bright multi-button 4.3" LCD screen, process controls, Ethernet/IP connectivity capability, the DTX-2400 delivers superior performance and premium power.



EtherNet/IP ODVA CONFORMANT

Intertek

Certifications:
ETL listed to UL 61010-1 and CSA C22.2#61010-1,
CE compliant

APPLICATIONS

- Electro-Plating
- Reel-to-Reel
- Precious Metal
- Electro-Forming

FEATURES

Improve your process - Accurate and low DC ripple

- Exact delivery of power throughout working range
- Engineered for low ripple output, delivers smooth, clean DC
- ETL certification guarantees safety and quality

Air cooled system - Full Protection

- Unit interior completely sealed from cooling air and air ducts for high reliability and increased life-time
- Overload, over-temperature and short-circuit protected

Value-added design featuring FPGA technology

- FPGA controlled system reduces downtime for maximum performance and reliability
- Designed for harsh environments
- Light-weight, 11 lbs
- Process programming and 200Hz options available

User Interface - Intuitive Control

- 4.3" full color display
- Ampere time and real time cycle control

Seamless connectivity and Certifications

- Ethernet/IP Protocol (ODVA Certified)
- Plug-and-play connect to automation control system

DTX-2400 Power Supply

SPECIFICATIONS

Max Rated Power	2,400W

Output Rating

Model No:	OUTPUT RATING		
	Max Rated Voltage	Max Rated Current	Max Rated Power
DTX12-10	12V	10A	120W
DTX12-50	12V	50A	600W
DTX24-10	24V	10A	240W
DTX24-100	24V	100A	2,400W*
DTX48-50	48V	50A	2,400W*
DTX100-24	100V	24A	2,400W*

*Note: 100-120VAC will limit output power to 1200W

Safe Operating Load Range	0 - 100% of unit voltage and current rating
Output Voltage Regulation	Max. ± 1% of setting for 20-100% of unit rating Max. ± 0.2% of unit rating for 3-20% of unit rating
Output Current Regulation	Max. ± 0.5% of setting for 20-100% of unit rating Max. ± 0.1% of unit rating for 3-20% of unit rating
Ripple, RMS Noise	Less than 0.5% RMS of unit rating (0-5kHz)
Efficiency	91%-96% efficiency at rated output and depending on output voltage rating
Input Power	100-240VAC ±10%, 1-phase, 50/60Hz
Power Factor	PFC, 0.99 typical at 115VAC and 230VAC

Maximum input Current Rating

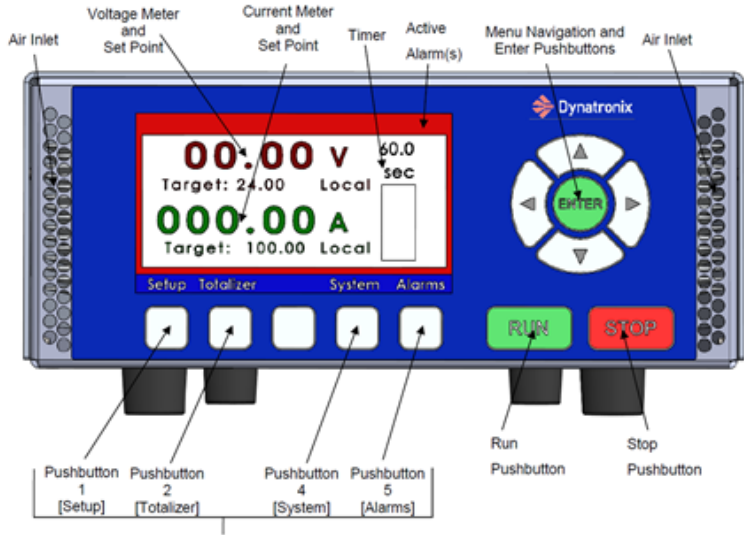
Model No:	MAXIMUM INPUT CURRENT RATING (Arms per phase) AT NOMINAL 1-PHASE LINE VOLTAGES (50/60 HZ)				
	90VAC	100VAC	115VAC	208VAC	230VAC
DTX12-10	1.7A	1.5A	1.5A	1A	1A
DTX12-50	7.5A	7A	6A	4A	3A
DTX24-10	3.5A	3A	2A	1.5A	1A
DTX24-100, DTX48-50, DTX100-24	15A*	14A*	12A*	13A	12A

Dimensions	3.43" H x 8.45" W x 18" D / 88mm H x 215mm W x 458mm D not including output connectors
Weight	11 lbs / 5kg
Enclosure	Powder coated aluminum
Cooling	Forced air cooling, Sealed interior
Humidity	20-80%RH non-condensing
Maximum Installation Height	2000m
Certifications	ETL listed to UL 61010-1 and CSA, C22.2#61010-1, CE compliance
Product Warranty	2 Years

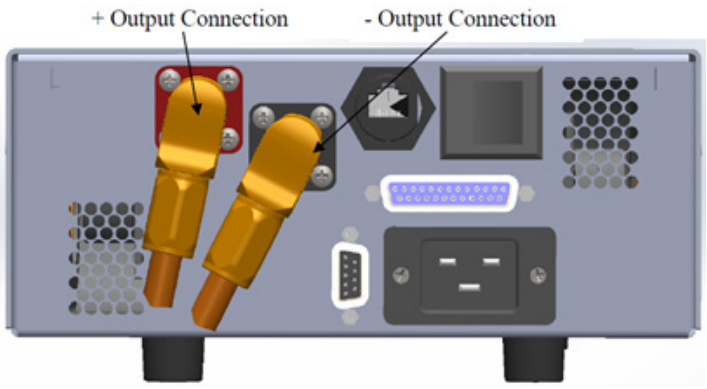
DTX-2400 Power Supply

VIEWS

Front View



Back View



Sealed Amphenol Surlok connectors

DC Connections



Amphenol SurLok - Standard



Threaded Studs up to 50A - Optional

User Interface / Features / Options

SPECIFICATIONS

Design	Bright 4.3" color display
Input	Sealed multi-button input
Digital meter accuracy	±1 of reading plus number of LSD

FEATURES/OPTIONS

BASIC FEATURES

- 4.3" full color display
- Multi-button menu driven
- Ampere time cycle control
- Real time cycle control
- Regulation Modes: Constant current, Constant voltage, Cross-over regulation
- Ethernet/IP Interface, ODVA certified for easy setup by customer, For external control or monitoring
- Remote voltage sense
- Operate input
- Inhibit signal input

OPTIONS

- Advanced Process Control
  - Recipe Control with complex sequence programming featuring several steps and step segments each
  - Storage of sequences with individual alpha/numeric name
  - Creation of ramp, pulse, saw tooth, trickle or other profiles
  - Current or voltage monitoring
  - 200Hz pulsing capability
- Analog 0-10V 4-20mA Interface
  - For external control or monitoring
  - Select between 3-channel or 4-channel mode
- Reversing
  - Integrated reversing for DC output
  - Direct input of negative set values for reversed output
  - Can be combined with Advanced Process Control Option
- Bail Kit for adjustable viewing angle
- Threaded Output Studs, Only for models with 50ADC or less
- 2U 19" bracket for integration into a 19" rack

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