PROCESS TECHNOLOGY

POWERED FOR A BETTER FINISH

The high-performance DTX-6000 Power Supply will bring your process to the next level, delivering accurate, ultra-low ripple DC power.

Inside high-efficiency silicon carbide (SiC) components and synchronous rectification (SR) reduce process energy consumption, while the modular 19-inch external footprint allows for scalable power levels.

Paired with the new M1 Controller featuring digital controls, a bright LCD screen, advanced data logging, and Ethernet/IP connectivity capability, the DTX-6000 delivers superior performance and premium power.

Shown: **DTX-6000 Power Supply** (without 19" handles) and M-1 Controller

EtherNet/IP ODVA CONFORMANT

Intertek

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

APPLICATIONS

- Electroplating
- Electroforming
- Anodizing
- Electrowinning
- Electrorefining

FEATURES

DTX-6000 Power Supply

Improve your process - Ultra-low ripple and accurate

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

Value-added design featuring FPGA technology

- FPGA controlled system reduces downtime for maximum performance and reliability
- Less waste heat and energy consumption
- Wide Range 3-phase AC Input 208-480VAC
- Designed for harsh environments
- Flexible/scalable 19 inch rack design

M-1 Controller

External control unit - Delivers seamless connectivity

- Plug-and-play connect to automation control system
- Control of multiple paralleled modules
- Data logging, process programming and 200Hz options available
- Sealed design for close-to-tank installations
- **Ethernet/IP Protocol** (ODVA Certified) - optional

DTX-6000 Power Supply

SPECIFICATIONS

Max Rated Power	6,000W

Output Rating

Model No:	OUTPUT RATING		
	Max Rated Voltage	Max Rated Current	Max Rated Power
DTX12-500	12V	500A	6,000W
DTX24-250	24V	250A	6,000W
DTX48-125	48V	125A	6,000W
DTX100-60	100V	60A	6,000W

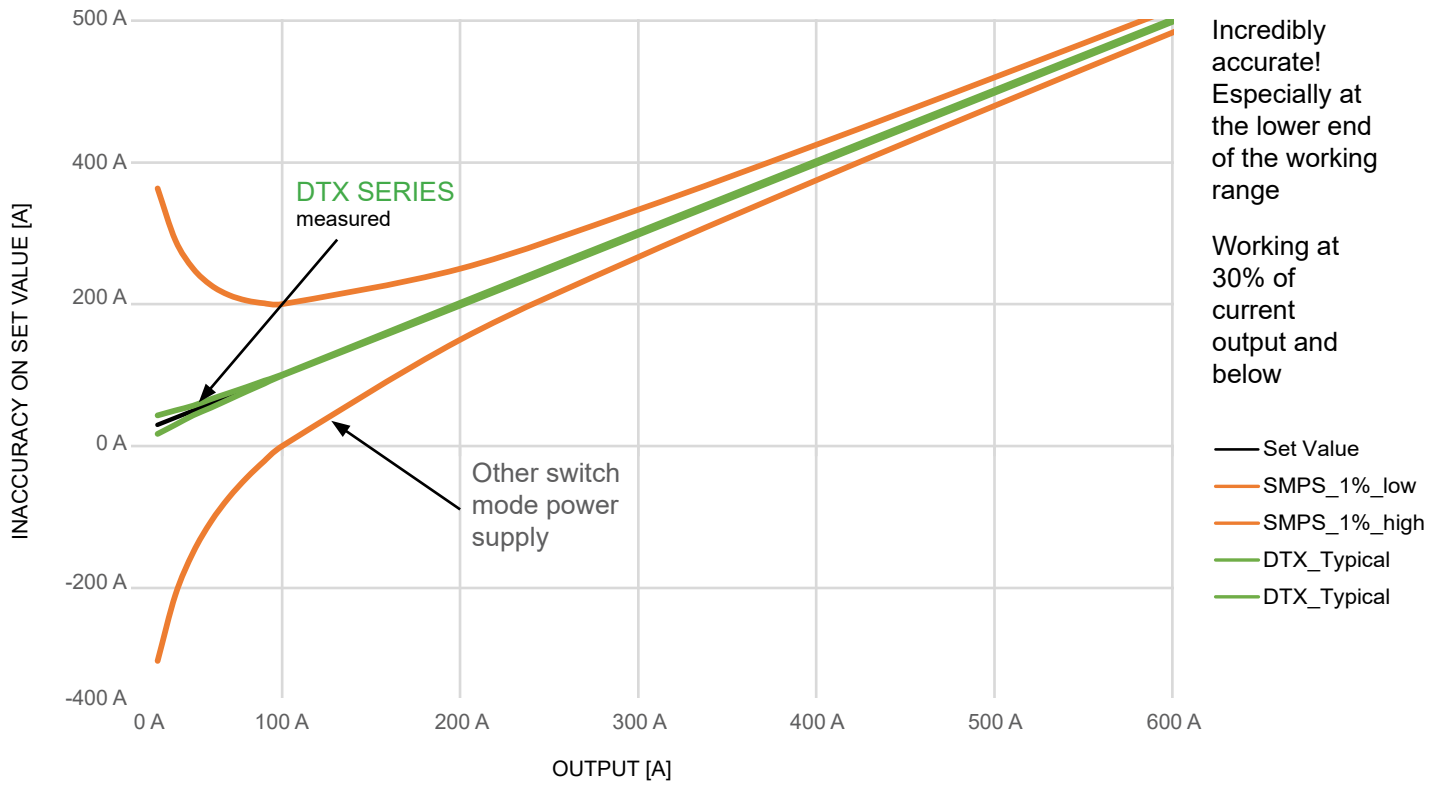
Safe Operating Load Range	0 - 100% of unit voltage and current rating
Output Voltage Regulation	Max. ± 0.5% of setting for 20-100% of unit rating Max. ± 0.5% of unit rating for 3-20% of unit rating
Output Current Regulation	Max. ± 0.5% of setting for 10-100% of unit rating Max. ± 0.5% of unit rating for 3-10% of unit rating
Ripple, RMS Noise	Less than 0.3% RMS of unit rating (0-5kHz)
Efficiency	90%-96% efficiency at rated output and depending on output voltage rating
Input Power	208-480VAC ±10%, 3-phase, 50/60Hz
Power Factor	0.95 at rated output

Maximum input Current Rating

Model No:	MAXIMUM INPUT CURRENT RATING (Arms per phase) AT NOMINAL 3-PHASE LINE VOLTAGES (50/60 HZ)					
	208AC	240VAC	400VAC	415VAC	440VAC	480VAC
DTX12-500	20	17	10	10	9	9
DTX24-250	20	17	10	10	9	9
DTX48-125	19	17	10	10	9	9
DTX100-60	19	16	10	10	9	8

Dimensions	5.05'' H (3U) x 19'' W x 26.1'' D / 129mm H x 482.6mm W x 663mm D including 19'' brackets and output busbars
Weight	49 lbs / 22.5kg
Enclosure	Powder coated aluminum
Cooling	Forced Air cooling
Sealing	True Sealing with two 100% sealed air ducts
Operating Temperature	32°F - 104°F / 0°C - 40°C, indoor use only
Storage Temperature	-4°F - 158°F / -20°C - 70°C
Humidity	20-80% RH non-condensing
Maximum Installation Height	2000m
Certifications	ETL listed to UL 61010-1 and CSA, C22.2#61010-1, CE compliant
Product Warranty	2 Years

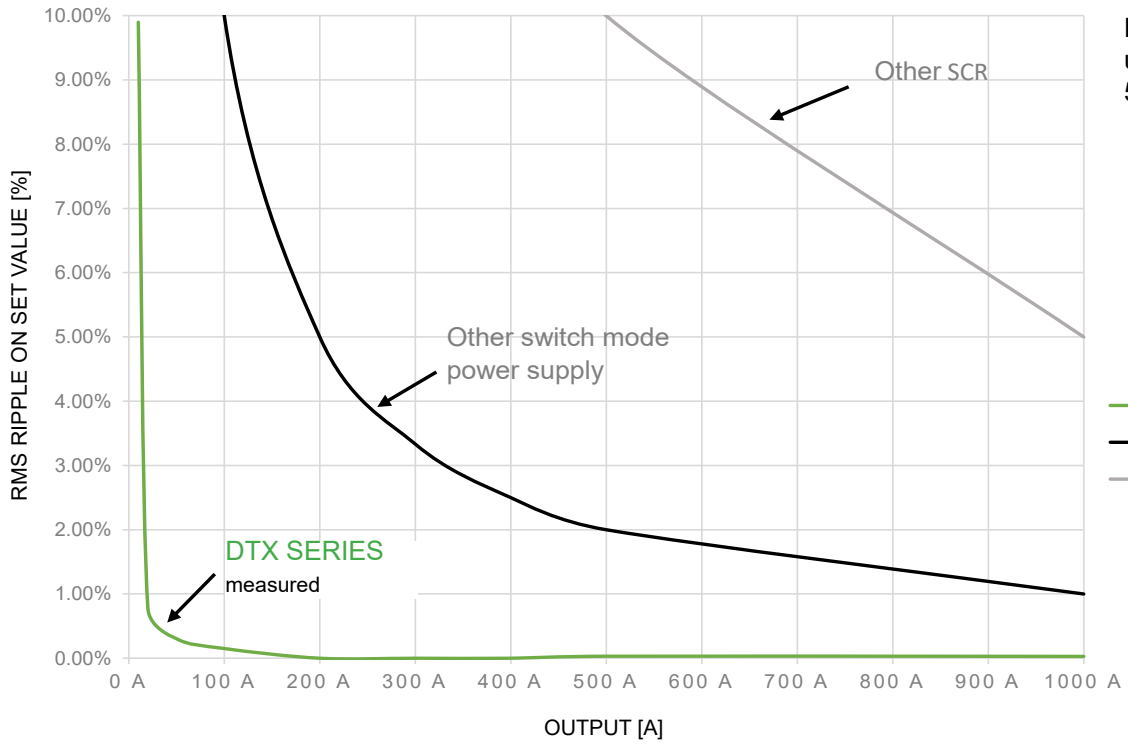
DTX SERIES OUTPUT ACCURACY



Incredibly accurate! Especially at the lower end of the working range

Working at 30% of current output and below

DTX SERIES: RIPPLE CHART

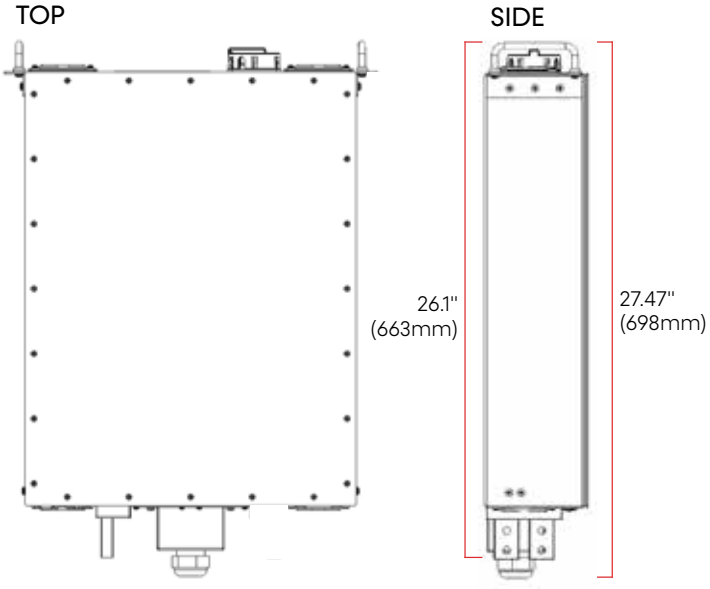


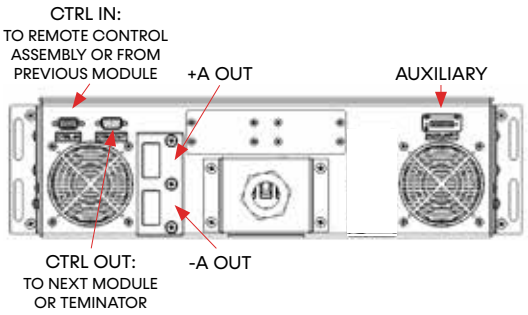
DTX SERIES Delivers ultra-low ripple from 5-100% of output!

DTX-6000: DIMENSIONS/CONNECTIONS

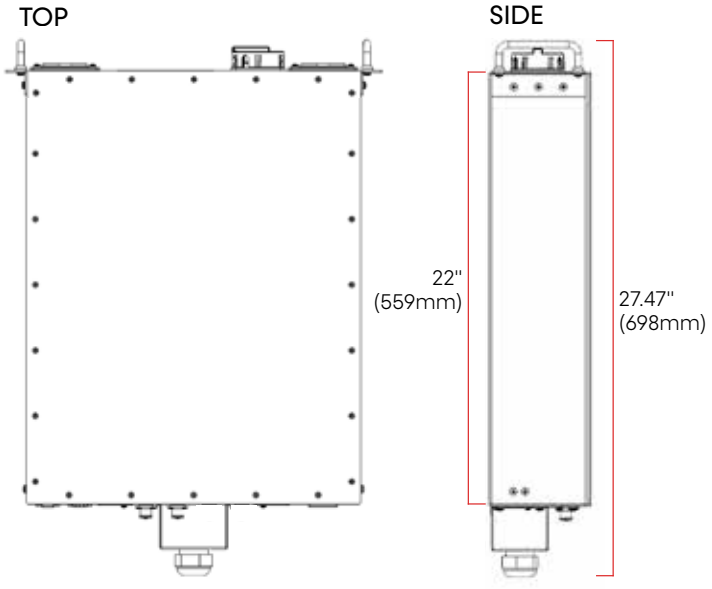
FRONT

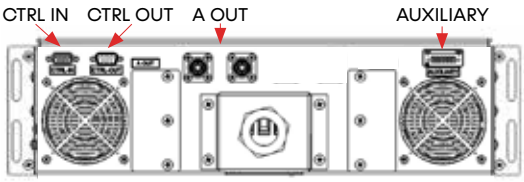
12V. 24V and 48V (BUS BAR)





100V (PLUG IN)





DTX-6000: MODEL NUMBER BREAKDOWN

DTX	12	-	500	-	M1W	-	1	-	AS

Series	Voltage	-	Current	-	Controller and mounting options	-	Cable length	-	Options
DTX = DTX Series	12 = 12VDC (std)		60 to 4500 = 60ADC to 4,500ADC		M1W = Wall Mount, Bottom exit (std)		1 = 10feet / 3m (std)		Blank = No option (std)
	24 = 24VDC				M1T = Tabletop Mount, Rear exit		2 = 25feet / 7.5m		AS = Analog Signals 0-10V or 4-20mA
	48 = 48VDC				M1F = Flush Mount, Rear exit		3 = 50feet / 15m		EI = Ethernet/IP Communication
	60 = 60VDC						4 = 100feet / 30m		AC = Advanced Process Control, Recipe, 200Hz
	100 = 100VDC								DL = Data Logging

M-1 Controller

SPECIFICATIONS

Dimensions	5.33'' H x 9.53' W x 3.47'' D / 135.4mm H x 242mm W x 88.1mm D
Weight	1lb / 0.5kg
Enclosure	Powder coated aluminum

M-1: FEATURES/OPTIONS

BASIC FEATURES

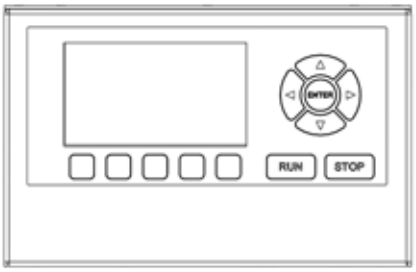
- 4.3'' full color display
- Multi-button menu driven
- Ampere time cycle control
- Real time cycle control
- Regulation Modes: Constant current, Constant voltage, Cross-over regulation
- Sealed powder-coated aluminum enclosure
- VESA compatible 7.87'' x 7.87'' / 100 x 100mm
- Powered via control cable. No additional AC required

OPTIONS

- Recipe Feature
  - 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
- Ethernet/IP Interface
  - Ethernet/IP interface
  - ODVA certified for easy setup by customer
  - For external control or monitoring
- Data Logging including FTP Server connectivity
  - Data Logging
  - FTP Server capabilities via Ethernet connection using RJ45 connector

M-1: DIMENSIONS and MOUNTING/INSTALLATION OPTIONS

FRONT



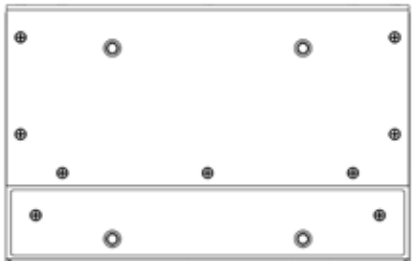
5.33"
(135.4mm)

8.31" (211mm)

SIDE

3.47" (88.1mm)

BACK



WALL MOUNT

FRONT

SIDE

9.53" (242mm)

BACK

TABLETOP MOUNT

FRONT

SIDE

9.53" (242mm)

BACK

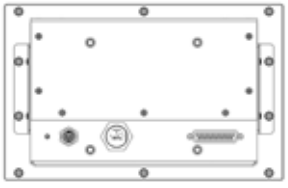
FLUSH MOUNT

FRONT

6.45"
(164mm)

10.25" (260mm)

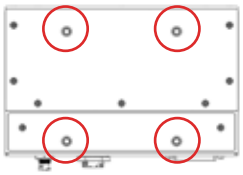
BACK



SIDE

VESA MOUNT COMPATIBLE

BACK



7.87"
(100mm)

7.87" (100mm)

- For every version standard
- Required holes:
  7.87" x 7.87", (100 x 100mm)
- VESA support not included