



## 100A ACCURATE DC POWER DELIVERY

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.



### 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

### APPLICATIONS

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

# 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. $\pm$ 1% of setting for 20-100% of unit rating<br>Max. $\pm$ 0.2% of unit rating for 3-20% of unit rating   |   |                   |                 |        |        |
| Output Current Regulation                          | Max. $\pm$ 0.5% of setting for 20-100% of unit rating<br>Max. $\pm$ 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 $\pm$ 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<br>(Arms per phase)<br>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<br>not including output connectors                        |   |                   |                 |        |        |
| Weight   | 11 lbs / 5kg   |   |                   |                 |        |        |
| Enclosure  | Powder coated aluminum   |   |                   |                 |        |        |
| Cooling  | Forced air cooling, Sealed interior  |   |                   |                 |        |        |
| 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, OE compliance   |   |                   |                 |        |        |
| Product Warranty                                   | 2 Years  |   |                   |                 |        |        |