PROCESS
TECHNOLOGY®

NEW WATER-COOLED POWER SUPPLY
with dryACTIVE™ TECHNOLOGY

The high-performance water-cooled LCX-12000 Power Supply brings processes to the next level, delivering accurate, low ripple DC power in a sealed water-cooled design.

dryACTIVE™ Technology ensures proactive prevention of condensation inside the power supply. A seamless, stainless steel pipe system provides leak-free water-cooling for optimal reliability.

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 up to 120,000W.

Paired with the new M1 Controller featuring digital controls, a bright LCD screen, advanced data logging, and Ethernet/IP connectivity capability, the LCX-12000 delivers superior performance and premium power.

Shown:
LCX-12000 Power Supply
and M-1 Controller

EtherNet/IP®
ODVA®
CONFORMANT

ETL
c LISTED us
Intertek

CE

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

APPLICATIONS

- Electroplating
- Anodizing
- Wire Plating
- Electro-Winning

FEATURES

LCX-12000 Power Supply

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

Water-cooled system - dryACTIVE™ Technology
- Proactive condensation prevention
- Seamless stainless steel cooling pipe - Leak-free design

Green-Design
- Less waste-heat and energy consumption
- Water-on-demand combined with external valve

Value-added design featuring FPGA technology
- FPGA controlled system reduces downtime for maximum performance and reliability
- Designed for harsh environments, IP55, Nema 12
- Light-weight, under 60 lbs for 1000 amp 12kW system
- Flexible/scalable 19 inch rack design

call 1-440-974-1300 · visit processtechnology.com · or contact your local representative for more information

DATA SHEET

LCX-12000 Power Supply

SPECIFICATIONS

Max Rated Power	12,000W

Output Rating				

Model No:	OUTPUT RATING		
	Max Rated Voltage	Max Rated Current	Max Rated Power
LCX12-1000	12V	1000A	12,000W
LCX24-500	24V	500A	12,000W
LCX48-250	48V	250A	12,000W
LCX00-200	60V	200A	12,000W
LCX100-120	100V	120A	12,000W

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 0.5% RMS of unit rating (0-5kHz)
Efficiency	91%-96% efficiency at rated output and depending on output voltage rating
Input Power	380-480VAC ±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)				
	380VAC	400VAC	415VAC	440VAC	480VAC
LCX12-1000	21	20	20	19	17
LCX24-500	21	20	19	18	17
LCX48-250	21	20	19	18	17
LCX00-200	21	20	19	18	17
LCX100-120	21	20	19	18	16

|	
Dimensions	4.3'' H x 19'' W x 25.8'' D / 110mm H x 482.6mm W x 655mm D including 19'' brackets and output busbars
Weight	60 lbs / 28kg
Enclosure	Stainless steel enclosure with aluminum base, Sealed Design, IP55
Cooling	Water-cooled, stainless steel cooling pipe system, overtemperature protection dryACTIVE™ Technology to prevent condensation inside the system External valve control for water-on-demand (valve optional)
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

LCX-12000: DIMENSIONS and MOUNTING/INSTALLATION OPTIONS

FRONT

19.00
18.31
16.12
4.27
3.77
2.25
0.30

Dynatronix
BY PROCESS TECHNOLOGY®
POWER
RUN
FAULT

17.00
17.49 (SEE NOTE 1)
19.25

BACK

2.00
8.62
2.50

CTRL-IN
CTRL-OUT
AUXILIARY
OUTLET
INLET

+
−

2.51
0.71

0.50
0.50
1.40
5.40

SIDE

24.28
1.50
3.94
19.91
2.25
2.90
2.31

BUS BARS

Ø0.55
2.00
1.00
0.50
1.88
1.00
3.88

WALL MOUNT

R0.35
R0.20
1.00
DETAIL SLOT (6X)
SCALE 2 : 1

18.26
SLOT
16.00
2.14

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DS_LCX12000_04062021

PROCESS
TECHNOLOGY®

DELIVERS SEAMLESS CONNECTIVITY

Designed for harsh environments, the M-1 digital controller features an intuitive user interface that ensures precise control of the power supply module.

SPECIFICATIONS

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

EtherNet/IP® ODVA CONFORMANT ETL Intertek CE

BASIC FEATURES

Plug-and-play connect to automation system

Control of multiple paralleled modules

Sealed design for close-to-tank installations

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

Terminator
020-0032-00

To AC
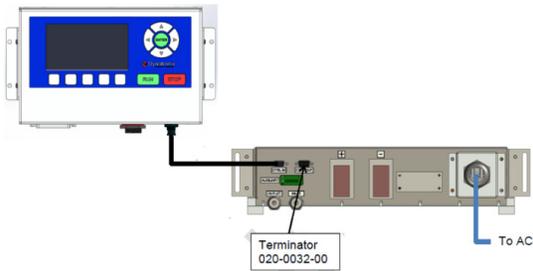
OPTIONS

Advanced Process Control

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

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DS_M1_04062021

M-1: DIMENSIONS and MOUNTING/INSTALLATION OPTIONS

FRONT

SIDE

BACK

5.33″ (135.4mm)

8.31" (211mm)

3.47" (88.1mm)
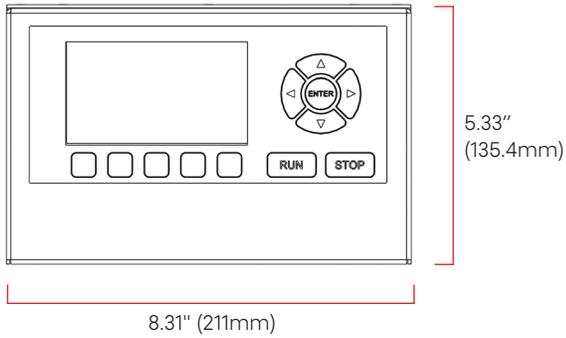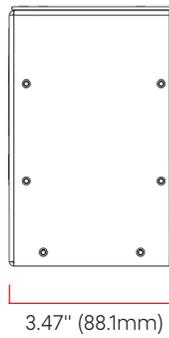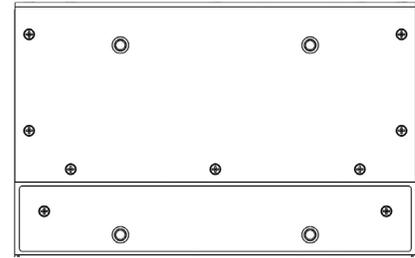
WALL MOUNT

FRONT

SIDE

9.53" (242mm)
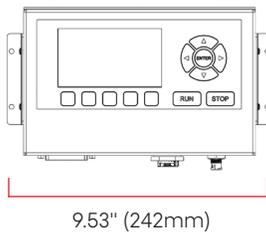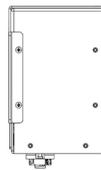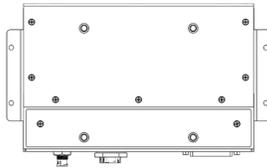
BACK

TABLETOP MOUNT

FRONT

SIDE

9.53" (242mm)
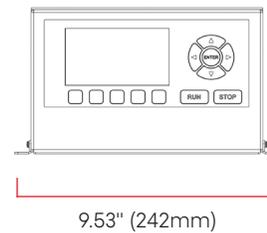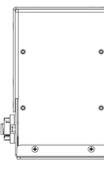
BACK

FLUSH MOUNT

FRONT

6.45" (164mm)

10.25" (260mm)
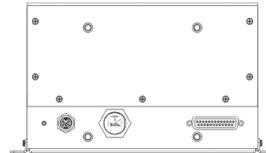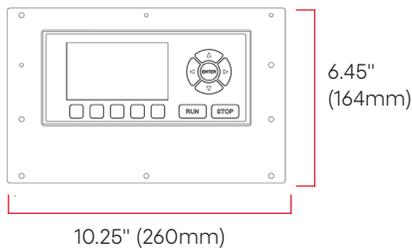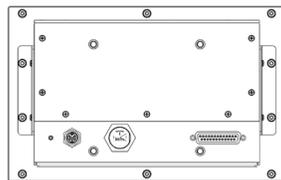
BACK

SIDE

VESA MOUNT COMPATIBLE

BACK
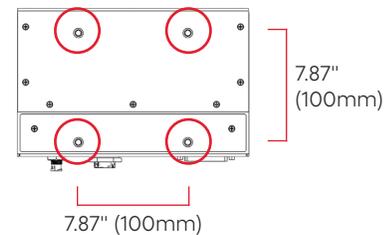
7.87" (100mm)

7.87" (100mm)

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