

LFP MODELS: 500-1000 AMPERES

Product Features



- ▶ System Output: DC or Low Frequency Pulse (LFP).
- ▶ Current outputs from 500-1000 amperes.
- ▶ Voltage outputs from 10-20 volts.
- ▶ Multiple options for control interfaces.
- ▶ Custom sizes and configurations available.
- ▶ Small package size: switch mode technology.
- ▶ Rugged, environmentally-sealed, powder-coated enclosure.

Product Overview

The MicroStar LFP Series power supply is based on switch mode technology. The control interface features a fully-programmable microprocessor. Menus are accessible to set ampere time, real-time cycles, output tolerance requirements and more.

- ▶ Real Time Cycle (RTC) Control
- ▶ Ampere Time Cycle Control (ATC) and Time Totalizer
- ▶ Ampere Time Totalizer
- ▶ Constant current, constant voltage, and cross-over regulation modes
- ▶ Low Frequency Pulse (LFP) Output Capability:
 - DC to 200 Hz pulses
 - Min Pulse Width: 4 ms ON, 1 ms OFF
- ▶ FrontPanel+ Host Control Program for process set-up and process storage/data logging
- ▶ RS485 serial port and USB port for host control
- ▶ Electronic overload, over-temperature, and short circuit protection
- ▶ Save/recall up to 10 different process steps
- ▶ Forced air cooled

Performance Specifications

- ▶ Line Regulation: +/- 1% of setting or 0.1% of maximum rating, whichever is greater
- ▶ Load Regulation: +/- 1% of setting or +/- 0.1% of maximum rating, whichever is greater
- ▶ Digital Meter Accuracy: +/- 1% plus L.S.D.
- ▶ Temperature Stability: 0.2% of peak rating after 15 minute warm up
- ▶ Ripple: <1% RMS of maximum rated output voltage
- ▶ Typical Pulse Rise Time: < 1.5 milliseconds
- ▶ Typical Pulse Fall Time: < 1.5 milliseconds

Options

- ▶ Recipe creation and storage
- ▶ Periodic reverse output
- ▶ Remote control interface panel
- ▶ Analog interface board: 4-20mA, 0-5V, or 0-10V
- ▶ Auxiliary totalizer with relay output to turn on/off pump, mixer, etc.
- ▶ Master/slave control - synchronize multiple units
- ▶ Ramp timer
- ▶ Trickle current
- ▶ 19" rack mount flanges

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Model	Voltage (DC)	Current (Amps)	Voltmeter Resolution	Amp Meter Resolution	AC Input Options	Size
10 Volts						
LFP10-500	0-10	0-500	*00.1/0.01 V	0.1 A	A, B	10.5"H x 17"W x 23"D
LFP10-750	0-10	0-750	*00.1/0.01 V	0.1 A	B	10.5"H x 17"W x 23"D
LFP10-1000	0-10	0-1000	*00.1/0.01 V	1 A	A, B	10.5"H x 17"W x 23"D
12 Volts						
LFP12-500	0-12	0-500	*00.1/0.01 V	0.1 A	A, B	10.5"H x 17"W x 23"D
LFP12-750	0-12	0-750	*00.1/0.01 V	0.1 A	B	10.5"H x 17"W x 23"D
LFP12-1000	0-12	0-1000	*00.1/0.01 V	1 A	B	10.5"H x 17"W x 23"D
18 Volts						
LFP18-500	0-18	0-500	*00.1/0.01 V	0.1 A	B	10.5"H x 17"W x 23"D
20 Volts						
LFP20-500	0-20	0-500	*00.1/0.01 V	0.1 A	A, B	10.5"H x 17"W x 23"D

***Resolution read out automatically adjusts to output**

Minimum Suggested Setting: 10% of maximum rated output

AC Input Options:

A: 208-240 VAC, 50-60 Hz, 3 Phase

B: 480 VAC, 50-60 Hz, 3 Phase

Specifications subject to change without notification