

## LFP MODELS: 10-300 AMPERES

### Product Features



- ▶ System Output: DC or Low Frequency Pulse (LFP).
- ▶ Current outputs from 10-300 amperes.
- ▶ Voltage output from 9-48 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)
- ▶ 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

## LFP MODELS: 10-300 AMPERES

Model	Voltage (DC)	Current (Amps)	Voltmeter Resolution	Amp Meter Resolution	AC Input Options	Size
<b>9 Volts</b>						
LFP9-10	0-9	0-10	0.01 V	0.01 A	A, B, C	7"H x 17"W x 22"D
LFP9-25	0-9	0-25	0.01 V	0.01 A	A, B	7"H x 17"W x 22"D
LFP9-50	0-9	0-50	0.01 V	0.01 A	A, B	7"H x 17"W x 22"D
LFP9-100	0-9	0-100	0.01 V	0.1 A	A, B	7"H x 17"W x 22"D
LFP9-150	0-9	0-150	0.01 V	0.1 A	B, C	7"H x 17"W x 22"D
LFP9-200	0-9	0-200	0.01 V	0.1 A	B, C	7"H x 17"W x 22"D
LFP9-250	0-9	0-250	0.01 V	0.1 A	B, C	7"H x 17"W x 22"D
LFP9-300	0-9	0-300	0.01 V	0.1 A	B, C	7"H x 17"W x 22"D
<b>12 Volts</b>						
LFP12-10	0-12	0-10	*00.1/0.01 V	0.01 A	A, B	7"H x 17"W x 24"D
LFP12-25	0-12	0-25	*00.1/0.01 V	0.01 A	A, B	7"H x 17"W x 24"D
LFP12-50	0-12	0-50	*00.1/0.01 V	0.01 A	A, B, C	7"H x 17"W x 24"D
LFP12-75	0-12	0-75	*00.1/0.01 V	0.01 A	A, B	7"H x 17"W x 24"D
LFP12-100	0-12	0-100	*00.1/0.01 V	0.1 A	A, B, C	7"H x 17"W x 24"D
LFP12-150	0-12	0-150	*00.1/0.01 V	0.1 A	B, C	7"H x 17"W x 24"D
LFP12-200	0-12	0-200	*00.1/0.01 V	0.1 A	B, C	7"H x 17"W x 24"D
LFP12-250	0-12	0-250	*00.1/0.01 V	0.1 A	B, C, D	7"H x 17"W x 24"D
LFP12-300	0-12	0-300	*00.1/0.01 V	0.1 A	B, C, D	7"H x 17"W x 24"D
<b>18 Volts</b>						
LFP18-10	0-18	0-10	*00.1/0.01 V	0.01 A	A, B	7"H x 17"W x 24"D
LFP18-25	0-18	0-25	*00.1/0.01 V	0.01 A	A, B	7"H x 17"W x 24"D
LFP18-50	0-18	0-50	*00.1/0.01 V	0.01 A	A, B	7"H x 17"W x 24"D
LFP18-75	0-18	0-75	*00.1/0.01 V	0.01 A	B, C	7"H x 17"W x 24"D
LFP18-100	0-18	0-100	*00.1/0.01 V	0.1 A	B, C	7"H x 17"W x 24"D
LFP18-150	0-18	0-150	*00.1/0.01 V	0.1 A	B, C	7"H x 17"W x 24"D
LFP18-200	0-18	0-200	*00.1/0.01 V	0.1 A	B, C	7"H x 17"W x 24"D

\*Resolution read out automatically adjusts to output

Minimum Suggested Setting: 10% of maximum rated output

#### AC Input Options:

- A:** 110 VAC, 50-60 Hz, 1 Phase
- B:** 208-240 VAC, 50-60 Hz, 1 Phase
- C:** 208-240 VAC, 50-60 Hz, 3 Phase

## LFP MODELS: 10-300 AMPERES

Model	Voltage (DC)	Current (Amps)	Voltmeter Resolution	Amp Meter Resolution	AC Input Options	Size
<b>24 VOLTS</b>						
LFP24-10	0-24	0-10	*00.1/0.01 V	0.01 A	A, B	7"H x 17"W x 24"D
LFP24-25	0-24	0-25	*00.1/0.01 V	0.01 A	A, B	7"H x 17"W x 24"D
LFP24-50	0-24	0-50	*00.1/0.01 V	0.01 A	B, C	7"H x 17"W x 24"D
LFP24-100	0-24	0-100	*00.1/0.01 V	0.1 A	B, C	7"H x 17"W x 24"D
LFP24-150	0-24	0-150	*00.1/0.01 V	0.1 A	B	7"H x 17"W x 24"D
<b>48 VOLTS</b>						
LFP48-10	0-48	0-10	*00.1/0.01 V	0.01 A	A, B	7"H x 17"W x 24"D
LFP48-25	0-48	0-25	*00.1/0.01 V	0.01 A	A, B	7"H x 17"W x 24"D
LFP48-50	0-48	0-50	*00.1/0.01 V	0.01 A	B, C	7"H x 17"W x 24"D

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

**Minimum Suggested Setting: 10% of maximum rated output**

**AC Input Options:**

- A:** 110 VAC, 50-60 Hz, 1 Phase
- B:** 208-240 VAC, 50-60 Hz, 1 Phase
- C:** 208-240 VAC, 50-60 Hz, 3 Phase

*Specifications subject to change without notification*