

DP/DPR MODELS: 5-250 AMPERES

Product Features



- ▶ System Output: DC, High Frequency Pulse (HFP) or Pulse Reverse.
- ▶ Current outputs from 5-250 amperes average.
- ▶ Voltage output from 10-40 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 DP/DPR 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
- ▶ High Frequency Pulse (HFP) Output Capability:
 - DC to 5000 Hz pulses
- ▶ 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

Options

- ▶ Recipe creation and storage
- ▶ Patented extended operating range
- ▶ 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

DP MODELS: 5-250 AMPERES (FORWARD ONLY)

Model	Voltage (DC)	Max Avg/Peak Current	Voltmeter Resolution	Amp Meter Resolution	AC Inputs Available	Size
20 Volts						
DP20-5-10	0-20	5 / 10 A	*00.1/0.01 V	0.01 A	A, B	A
DP20-15-30	0-20	15 / 30 A	*00.1/0.01 V	0.01 A	A, B	A
DP20-30-100	0-20	30 / 100 A	*00.1/0.01 V	0.1 A	A, B	A
DP20-50-100	0-20	50 / 100 A	*00.1/0.01 V	0.1 A	B, C	B
DP20-50-200	0-20	50 / 200 A	*00.1/0.01 V	0.1 A	B, C	B
DP20-100-400	0-20	100 / 400 A	*00.1/0.01 V	0.1 A	B, C	B
DP20-150-300	0-20	150 / 300 A	*00.1/0.01 V	0.1 A	B, C	B
DP20-250-400	0-20	250 / 400 A	*00.1/0.01 V	0.1 A	C, D	B
40 Volts						
DP40-5-10	0-40	5 / 10 A	*00.1/0.01 V	0.01 A	B	A
DP40-15-30	0-40	15 / 30 A	*00.1/0.01 V	0.01 A	A, B	A
DP40-30-100	0-40	30 / 100 A	*00.1/0.01 V	0.1 A	B, C	A
DP40-50-100	0-40	50 / 100 A	*00.1/0.01 V	0.1 A	B, C	B
DP40-50-200	0-40	50 / 200 A	*00.1/0.01 V	0.1 A	B, C	B
DP40-100-400	0-40	100 / 400 A	*00.1/0.01 V	0.1 A	B, C, D	B

*Resolution read out automatically adjusts to output

Minimum Suggested Setting: 10% of peak current rating

AC Input Options:

- A: 110-120 VAC, 50-60 Hz, 1 Phase
- B: 208-240 VAC, 50-60 Hz, 1 Phase
- C: 208-240 VAC, 50-60 Hz, 3 Phase
- D: 480 VAC, 50-60 Hz, 3 Phase

Physical Sizes:

- A: 8.75" High x 17" Wide x 23" Deep

Specifications subject to change without notification

DPR MODELS: 5-250 AMPERES (FORWARD OR REVERSE)

Model	Voltage (DC)	Max Avg/Peak Current	Voltmeter Resolution	Amp Meter Resolution	AC Inputs Available	Size
20 Volts						
DPR20-5-10	0-20	5 / 10 A	*00.1/0.01 V	0.01 A	A, B	A
DPR20-15-30	0-20	15 / 30 A	*00.1/0.01 V	0.01 A	A, B	A
DPR20-30-100	0-20	30 / 100 A	*00.1/0.01 V	0.1 A	A, B	A
DPR20-50-100	0-20	50 / 100 A	*00.1/0.01 V	0.1 A	B, C	B
DPR20-50-200	0-20	50 / 200 A	*00.1/0.01 V	0.1 A	B, C	B
DPR20-100-400	0-20	100 / 400 A	*00.1/0.01 V	0.1 A	B, C	B
DPR20-150-300	0-20	150 / 300 A	*00.1/0.01 V	0.1 A	B, C	B
DPR20-250-400	0-20	250 / 400 A	*00.1/0.01 V	0.1 A	C, D	B

40 Volts						
DPR40-5-10	0-40	5 / 10 A	*00.1/0.01 V	0.01 A	B	A
DPR40-15-30	0-40	15 / 30 A	*00.1/0.01 V	0.01 A	A, B	A
DPR40-30-100	0-40	30 / 100 A	*00.1/0.01 V	0.1 A	B, C	A
DPR40-50-100	0-40	50 / 100 A	*00.1/0.01 V	0.1 A	B, C	B
DPR40-50-200	0-40	50 / 200 A	*00.1/0.01 V	0.1 A	B, C	B
DPR40-100-400	0-40	100 / 400 A	*00.1/0.01 V	0.1 A	B, C, D	B

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

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