

Benchtop SMPS

Reliable DC power with a small footprint

Our benchtop Switchmode Power Supply (SMPS) rectifier features an innovative, compact design to provide users with an operational and installation advantage.

Dynapower benchtop SMPS rectifiers provide the reliability and functionality you need, while maximizing your space and cost savings. It is a solid-state AC-to-DC power conversion system, with sealed electronics and electrical component compartments that can withstand harsh, caustic environments.

This system provides a precisely controlled, high-current DC output with <2% AC Vrms content. Its high switching frequency enables a smaller package, less ripple, and higher efficiency, and provides for a faster control loop. Integrated controls include a digital display, on/off switch, voltage and current mode indication lights, and control pushbuttons. The benchtop SMPS also comes with a variety of analog remote interface options, including 4-20mA, 0-10V, and 0-5V.

System Advantages

- High efficiency power in a small footprint
- Low ripple content
- Standard configurations in-stock and available for next day delivery



TECHNICAL SPECIFICATIONS

Electrical

Input Voltage:	110V _{AC} 3PH / 220V _{AC} 3PH
Frequency:	60Hz (standard) / 50Hz (optional)
Output Voltage:	6-24V _{DC} (see matrix below)
Output Amps:	10-300A _{DC} (see matrix below)
Ripple:	2% at Full Output
Power Factor:	0.93 throughout operating range
Efficiency:	90% at rated output
Regulation Range:	10-100% of rated output
Control Precision:	Voltage/current at +/- 1%
Duty Cycle:	Designed for continuous operation at rated load

Environmental

Cooling:	Forced Air
Enclosure:	Stainless Steel Enclosure with Sealed Electronics
Dimensions (H x W x D):	5.25" x 19" x 23.25"
Max Ambient:	40°C

Controls

Integral digital display with push buttons

Communications Interface

- Analog 4-20mA (Standard)
- Analog 0-10V (Optional)
- Analog 0-5V (Optional)

Protection Features

- Over-Current
- Over-Voltage
- Over-Temperature

STANDARD CONFIGURATION OPTIONS

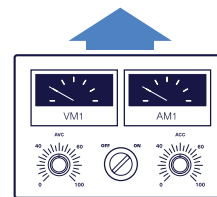
220V_{AC} Input

VOLTS	AMPS					
	10	25	50	100	200	300
6	✓	✓	✓	✓	✓	✓
12	✓	✓	✓	✓	✓	✓
15			✓	✓	✓	
18				✓	✓	
30				✓		

110V_{AC} Input

VOLTS	AMPS			
	10	25	50	100
6	✓	✓	✓	✓
12	✓	✓	✓	✓

Control Options



Analog Remote: Perfect for processes that do not require specialized outputs, our analog controls are designed to be as reliable and straightforward as possible, ensuring you get the unit control you need while withstanding the harshest environments.

