

# Basic Power Station 585674 (189-A0)

**FESTO**

LabVolt Series

Datasheet



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Festo Didactic  
en 120 V - 60 Hz  
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## General Description

The Basic Power Station, 189-A0, is ideal for use in classroom laboratories where science programs such as basic electricity, electronics, physics, and chemistry are taught. The Basic Power Station has two variable-voltage AC outputs (high and low voltages), one fixed-voltage AC output, and one variable-voltage DC output (filtered). A control knob on the front panel sets the voltage of all variable outputs. Two standard grounding-type, simplex receptacles and a pair of color-coded banana jacks provide access to the AC power outputs. A pair of color-coded banana jacks provides access to the DC power output. The Basic Power Station is powered from a standard AC power outlet and turned on by a toggle switch on the front panel. A pilot light illuminates when the unit is energized. It is recessed for semi-flush mounting in wood or metal rails using screws. To prevent tampering, it is assembled so that no screw heads or other means of component disassembly appear externally. The Basic Power Station is made of 16-gauge steel finished with scuff-resistant, black baked enamel. The station is supplied complete with installation and operating instructions, one set of alligator-clip leads, and mounting hardware when required.

## Specifications

Parameter	Value
<b>Power Requirements</b>	
Current	10 A
Service Installation	Standard single phase outlet
<b>Variable-Voltage DC Output</b>	
Voltage	0 to 12 V
Maximum Current	2.0 A
Ripple	Less than 10%
Overload Protection	Thermal-magnetic circuit breaker, trip and reset type
Isolation	Floating - isolated from line and chassis grounds
<b>Fixed-Voltage AC Output</b>	
Voltage	120 V
Maximum Current	10 A
Overload Protection	Thermal-magnetic circuit breaker, trip and reset type
<b>Variable High-Voltage AC Output</b>	
Voltage	0 to 120 V
Maximum Current	1.0 A
Overload Protection	Thermal-magnetic circuit breaker, trip and reset type
<b>Variable Low-Voltage AC Output</b>	
Voltage	0 to 12 V
Maximum Current	2.0 A
Overload Protection	Thermal-magnetic circuit breaker, trip and reset type
Isolation	Floating - isolated from line and chassis ground
<b>Physical Characteristics</b>	
Dimensions (H x W x D)	101 x 213 x 180 mm (4.0 x 8.75 x 7.1 in)
Dimensions (H x W) Cutout	92 x 187 mm (3.6 x 7.4 in)
Net Weight	3.5 kg (7.7 lb)
Clearances	177 mm (7 in) behind mounting surfaces
	25 mm (1 in) above unit

Reflecting the commitment of Festo Didactic to high quality standards in product, design, development, production, installation, and service, our manufacturing and distribution facility has received the ISO 9001 certification.

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