UPS S2

portable ac/dc power supply

Vanguard Instruments
A DOBLE COMPANY

doble®

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ordering information

Part No.	Description
9064-UC	110V UPS S2 and cables
9065-UC	220V UPS S2 and cables
9064-SC	UPS S2 shipping case

The Vanguard Universal Power Supply S2 (UPS S2) is designed to meet a utility company's substation needs for an independent AC/DC power source for operating circuit breakers. The UPS S2's AC and DC voltage sources can each supply up to 10 amperes during circuit breaker coil energization and circuit breaker charging motor operation.

The variable DC power supply (10 – 300 Vdc) is ideal for use as a substitute primary power source when substation batteries are not available. The UPS S2 is best suited for operating circuit-breakers, powering substation relays, or for un-regulated charging of substation batteries. The AC power supply is a variable isolated power source (10 – 240 Vac) that can be used to power other equipment in the substation.

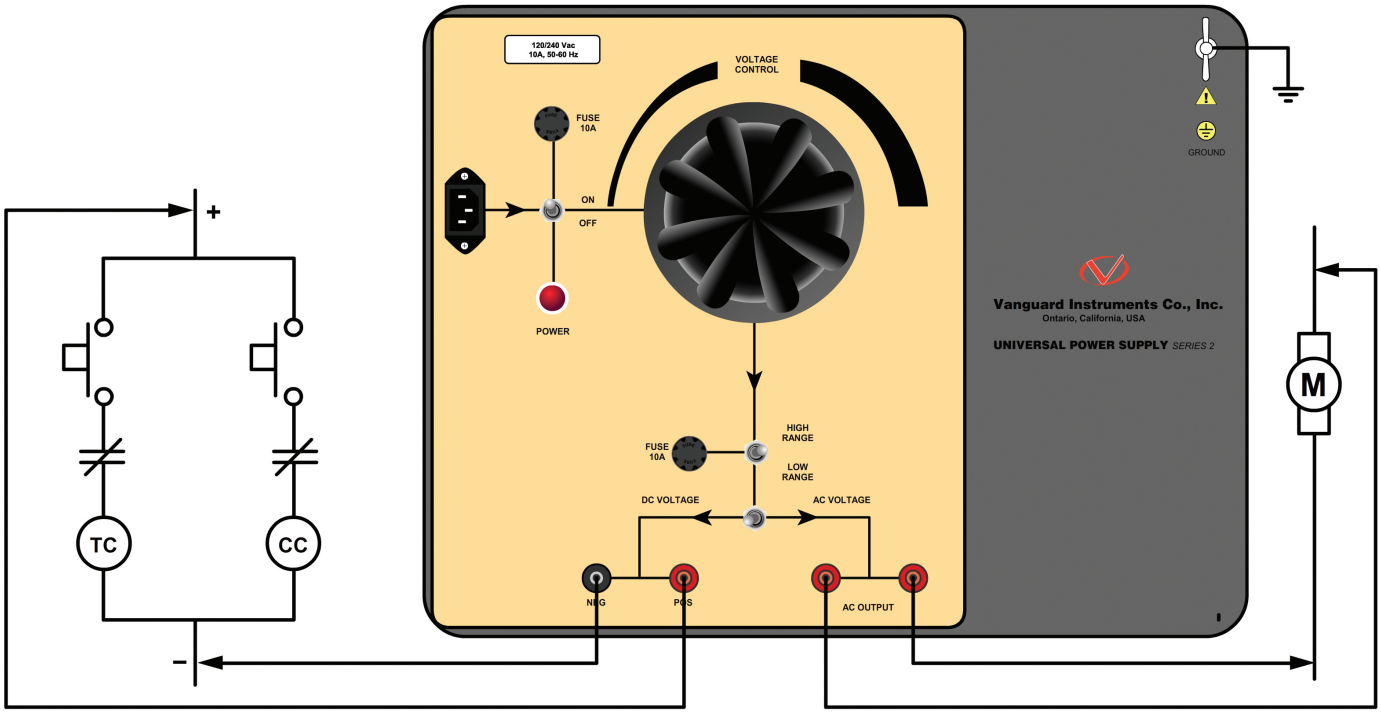
The Universal Power Supply S2 delivers several important features:

- All output power sources are isolated from the primary power input by an isolation transformer.
- Voltage outputs are variable (auto-transformer) via a front panel control knob.
- The primary power input is selectable (120Vac or 240Vac).

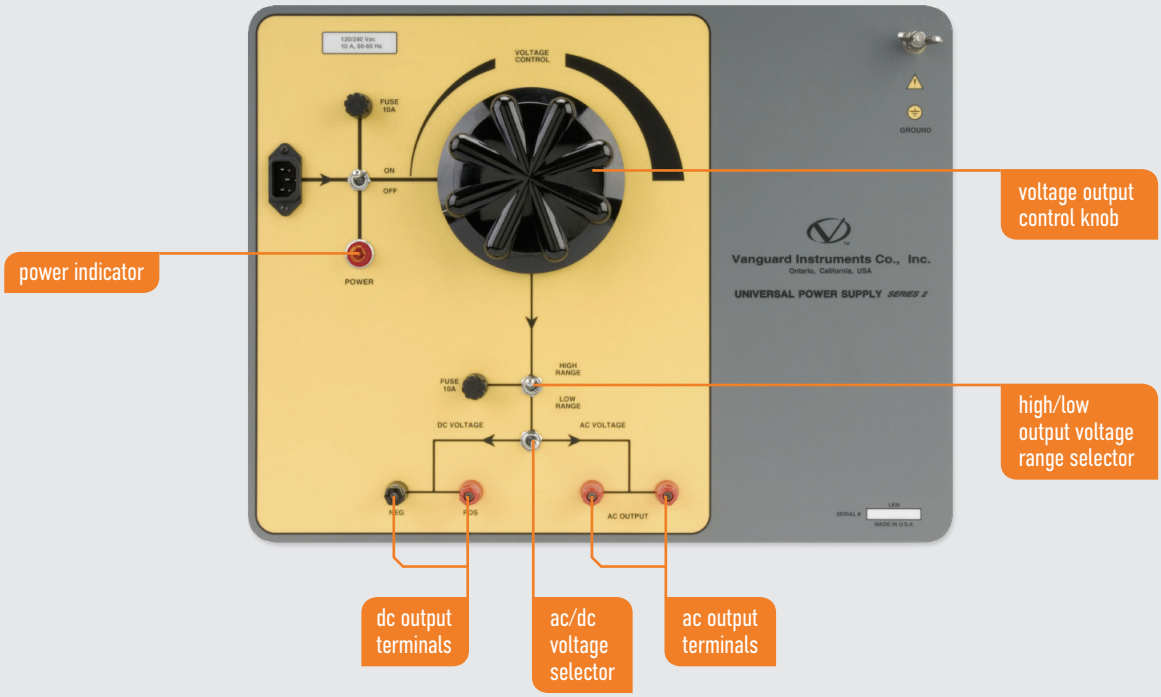
For ease of operation, the power output path is clearly outlined on the control panel. This provides an intuitive visual guide for making the appropriate selections for a particular operating configuration.

The Universal Power Supply S2 is housed in a heavy-duty, impact-resistant plastic enclosure and is furnished with a power cord, grounding cable, and a pair of test leads with alligator clips.

UPS S2 connections



UPS S2 Features



UPS S2 technical specifications

physical specifications	**Dimensions:** 21"W x 17"H x 9" D (53 cm x 43 cm x 24 cm) **Weight:** 55 lbs. (25 Kg)	**input voltage**	100 – 120 Vac or 200 – 240 Vac (factory pre-set), 50/60 Hz
dc output voltage	10 – 300 Vdc	**ac output voltage**	10 – 240 Vac
output current	120 V ac/dc @ 10A max (1 min on, 5 min off) 240 V ac/dc @ 5A max (1 min on, 5 min off)	**safety**	designed to meet UL 61010A-1 and CAN/CSA C22.2 No. 1010.1-92 standards
temperature	**Operating:** -10°C to +50°C (+15°F to +122°F) **Storage:** -30°C to +70°C (-22°F to +158°F)	**humidity**	90% RH @ 40°C (104°F) non-condensing
altitude	2,000 m (6,562 ft) to full safety specifications	**cables**	power cord, ground cable, 10-foot (3.05m) test leads
options	shipping case	**warranty**	one year on parts and labor

NOTE : the above specifications are valid at nominal voltage and ambient temperature of +25°C (+77°F). Specifications are subject to change without notice.

Instruments designed and developed by the hearts and minds of utility electricians around the world.

Founded in 1991 and located in Ontario, California, USA, Vanguard Instruments™ offers a wide range of diagnostic test equipment that accurately and efficiently measures the health of critical substation equipment, such as transformers, circuit breakers, and protective relays.

Our first product was a computerized, extra high voltage (EHV) circuit breaker analyzer, which became the forerunner of an entire line of EHV circuit breaker test equipment. Over the years, our portfolio has grown tremendously to include microcomputer-based precision micro-ohmmeters; single- and three-phase transformer winding turns-ratio testers; transformer winding-resistance meters; mega-ohm resistance meters; and a variety of other application-specific products.

Our instruments are rugged, reliable, accurate, and user friendly. They eliminate tedious and time-consuming operations, while providing fast, complex test-result calculations. Using our equipment helps reduce errors and eliminates the need to memorize long sequences of procedural steps.

In 2017, Vanguard Instruments became a part of Doble Engineering Company, an energy industry leader in hardware, software, and services that diagnose and monitor the health of critical assets.

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