

UPS S2

portable AC/DC power supply



Vanguard Instruments Company, Inc.
www.vanguard-instruments.com

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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.

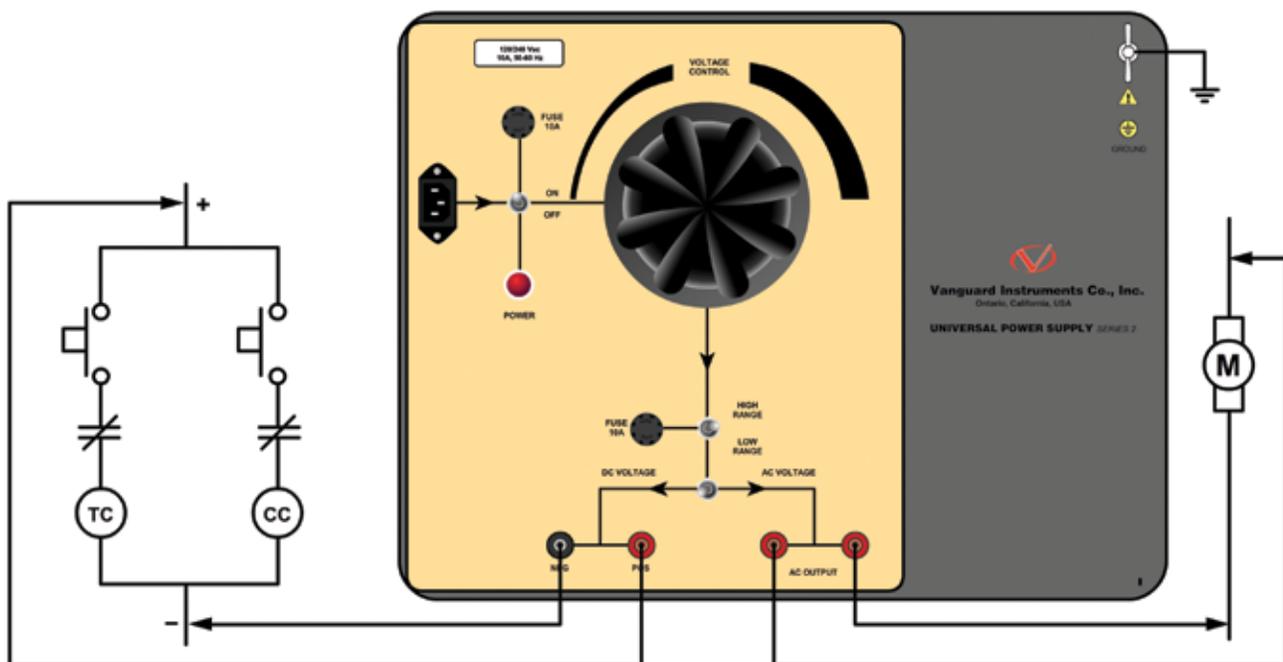
The Universal Power Supply S2 delivers several important features:

- 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).

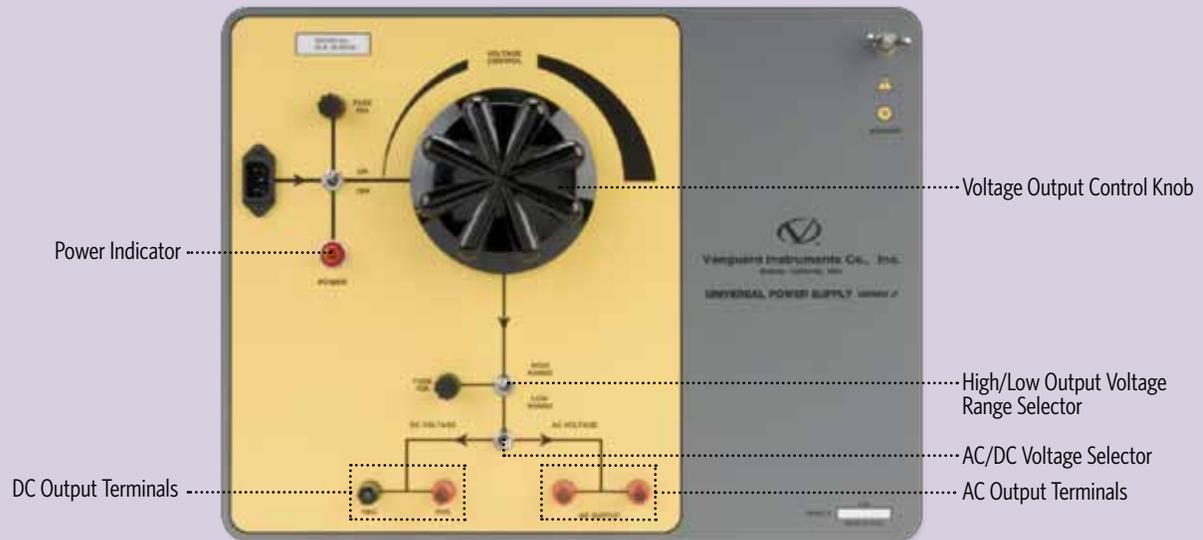
For ease of operation, the power output path is clearly outlined on the control panel. This provides an intuitive visual guide for making the appropriate selections for a particular operating configuration.

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 Controls & Indicators



UPS S2 specifications

- type** portable AC/DC power supply
- physical specifications** 21"W x 17"H x 9"D (53 cm x 43cm x 24 cm); Weight: 55 lbs (25 kg)
- input power** 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
- environment** 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** transportation 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.

ordering information

- | | |
|---------------------------------|----------------------|
| Part number UPS S2 | UPS S2 and cables |
| Part number UPS S2-CASE | UPS S2 shipping case |
| Part number UPS S2 LEADS | UPS S2 test leads |



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

Vanguard Instruments Company, (VIC), was founded in 1991. Currently, our 28,000 square-foot facility houses Administration, Design & Engineering, and Manufacturing operations. From its inception, VIC's vision was, and is to develop and manufacture innovative test equipment for use in testing substation EHV circuit breakers and other electrical apparatus.

The first VIC product was a computerized circuitbreaker analyzer, which was a resounding success. It became the forerunner of an entire series of circuitbreaker test equipment. Since its beginning, VIC's product line has expanded 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 electrical utility maintenance support products.

VIC's performance-oriented products are well suited for the utility industry. They are rugged, reliable, accurate, user friendly, and most are computer controlled. Computer control, with innovative programming, provides many automated testing functions. VIC's instruments eliminate tedious and time-consuming operations, while providing fast, complex, test-result calculations. Errors are reduced and the need to memorize long sequences of procedural steps is eliminated. Every VIC instrument is competitively priced and is covered by a liberal warranty.



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