

UPS S3

circuit breaker power supply



Vanguard Instruments
A DOBLE COMPANY





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ordering information

Part No.	Description
9140-UC	UPS S3 and cables
9140-SC	UPS S3 shipping case

The Vanguard UPS S3 is an AC/DC adjustable output power supply designed to operate substation circuit breakers. The UPS S3's AC and DC voltage sources can supply up to 10 Amperes during the circuit breaker coil energization and circuit breaker charging motor operation.

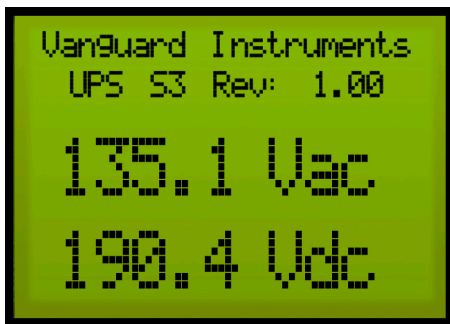
Powered by a single phase 90-120 Vac voltage source, the UPS S3 provides an isolated adjustable AC/DC voltage source. Output voltages are variable via the front panel control knob.

The unit's variable AC output voltage source (10-140 Vac) is rated at 140 Vac @ 9A continuous. It is also full-wave rectified and filtered to provide an isolated DC voltage source. The DC voltage source (10-200 Vdc) is rated at 180 Vdc@9A (2 seconds) or 180 Vdc @ 2A continuous. Both AC/DC voltage source outputs are protected by a circuit breaker.

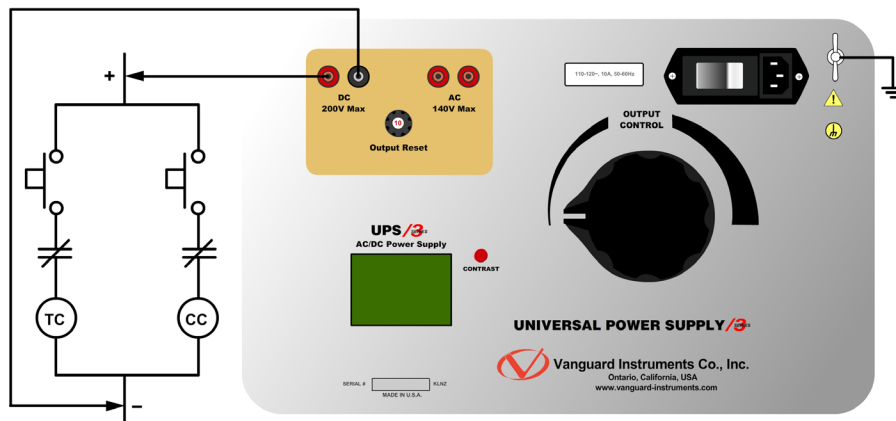
A built-in dual volt meter displays both AC and DC voltage simultaneously on a back-lit LCD screen (128 x 64 pixels) that is viewable in bright sunlight and low light levels. Both AC and DC voltage displays range from 0-200 Vrms.

The UPS S3 is housed in a plastic enclosure (17.5" x 12.5" x 11.7") and weighs 45 lbs. (20.4 Kg). A power cord, safety ground cable and voltage connection leads are included.

Sample Screenshot















UPS S3 connections



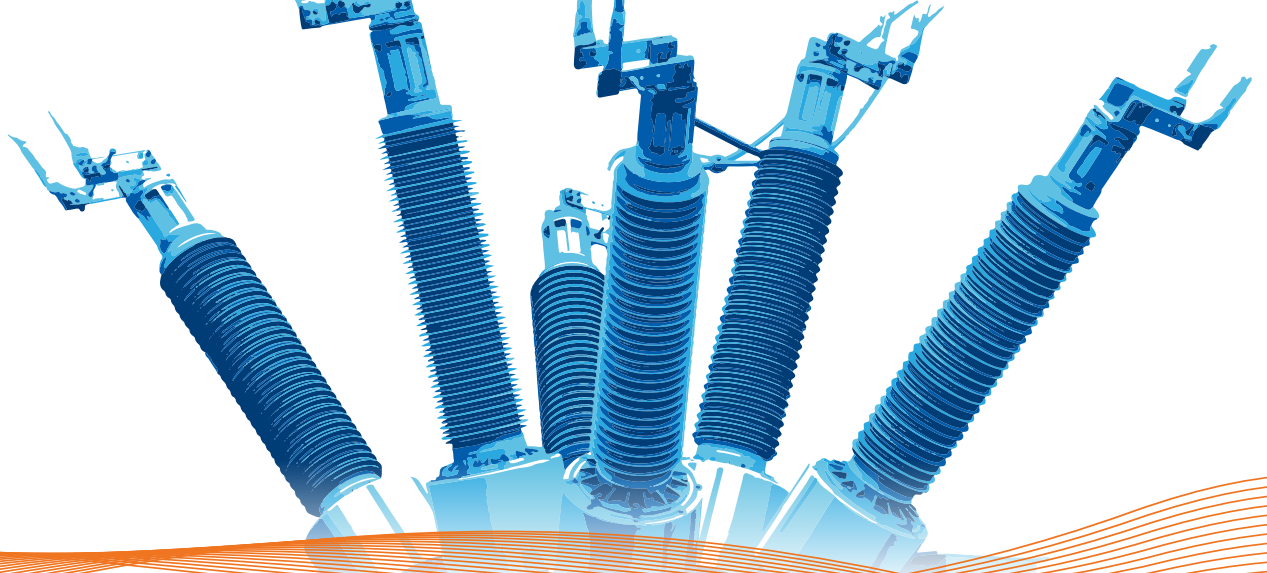
UPS S3 Features



UPS S3 technical specifications

 physical specifications	Dimensions: 17"W x 11.7"H x 12.5" D (44.5 cm x 30.0 cm x 31.8 cm) Weight: 45 lbs. (20.4 Kg)	 input power	100 – 120 Vac, 50/60 Hz
 output voltages	DC: 10 – 200 Vdc AC: 10 – 140 Vac	 display	back-lit LCD screen (128 x 64 pixels); viewable in bright light and low light levels
 output currents	9A max @ 140 Vac (20 min on, 30 min off) 9A max @ 140 Vdc (2 sec), 2A (continuous)	 safety	designed to meet the 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' (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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