

# F8 HIGH VA VOLTAGE MODULE

Two-channel phase voltage with color programmable LED rings

F8 modules take the guess work out of test connections and troubleshooting. A unique feature of these innovative modules is the programmable LED rings on the analog ports. The engineer or test technician can assign color combinations to the LED rings in Protection Suite and RTS software for visual indications when F8-series Power System Simulators are in use.



**The HVA Voltage Module** provides two 150 V sources at 150 VA or one 300 V source at 300 VA with both channels connected in parallel. Convertible Mode produces high-VA/low-range current sources for high compliance voltage in multiple ranges for testing high-burden relay elements.

Use Protection Suite and RTS software to set source configurations in the HVA Voltage Module and to assign colors to the LEDs for indicating correct test lead placements. For safety and to prevent hardware damage, the HVA Voltage Module automatically stops operating and the LEDs turn red when sensing short circuit conditions.



## HVA Voltage Module Technical Data

Power	Outputs	2
	Range	37.5 V, 75 V, 150 V, 300 V
	Accuracy (50 Hz / 60 Hz @ 20 °C to 30 °C) Guaranteed	±0.08 % of reading + 0.04 % of range
	Resolution	0.01 V
	Source Configurations	
	1-phase AC (L-N)	1 x 300 V at 300 VA 1 x 150 V at 300 VA 1 x 75 V at 300 VA 1 x 37.5 V at 300 VA
	2-phase AC (L-N)	2 x 150 V at 150 VA 2 x 75 V at 150 VA 2 x 37.5 V at 150 VA
	1-phase DC (L-N)	1 x 300 V at 300 W 1 x 150 V at 300 W 1 x 75 V at 300 W 1 x 37.5 V at 300 W
	2-phase DC (L-N)	2 x 150 V at 150 W 2 x 75 V at 150 W 2 x 37.5 V at 150 W
Frequency	Bandwidth	3 kHz
	Range	
	Sine Signals	1 kHz (DC)
	Harmonic, Inter-harmonic, Transient	3 kHz (DC), derates 50 % at 10 kHz bandwidth
	Accuracy (50 Hz / 60 Hz) @ 20 °C to 30 °C @ -20 °C to 50 °C	1.5 ppm 10 ppm
	Resolution	1 mHz
Phase	Range	-360° to +360°
	Accuracy (50 Hz / 60 Hz) Guaranteed	< 0.1°
	Resolution	0.01°
General	THD + N (50 Hz / 60 Hz)	0.15 %
	Connections	4 mm Banana, lighted (LED) outputs
	Dimensions	W: 4 $\frac{7}{16}$ inches (11.6 cm) H: 2 $\frac{3}{16}$ inches (5.6 cm) D: 7 $\frac{7}{8}$ inches (20 cm)
	Weight	2.1 lbs. (0.95 kg)

## Convertible Mode Technical Data

Power	Outputs	2
	Range	1.25 A, 2.5 A, 3.75 A, 5 A, 7.5 A
	Resolution	1 mA
	Source Configurations	
	1-phase AC	1 x 5 A at 300 VA
	1-phase Transient AC (30 seconds)	1 x 7.5 A at 300 VA
	2-phase AC	2 x 2.5 A / 75 V rms at 150 VA
	2-phase Transient AC (30 seconds)	2 x 3.75 A at 150 VA
	1-phase DC	5 A at 300 W
	2-phase DC	2.5 A at 150 W
Accuracy	20 Hz to 60 Hz and 20 °C to 30 °C - Guaranteed	±0.09 % of reading + 0.04 % of range
	THD + N (50 Hz / 60 Hz)	0.15 %
	Phase Angle (50 Hz / 60 Hz) - Guaranteed	<0.1°



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