

DOBLE PROTECTION TESTING

# F8000 HIGH VA VOLTAGE MODULE

Two analog sources with intelligent LED light rings

F8000 modules take the guess work out of test connections and troubleshooting. A unique feature of F8000 modules is the programmable analog ports with innovative LED light rings. The engineer or test technician can assign color combinations to the LED light rings in Protection Suite and RTS software for visual recognition of sources and logic applied to F8000-series Power System Simulators.



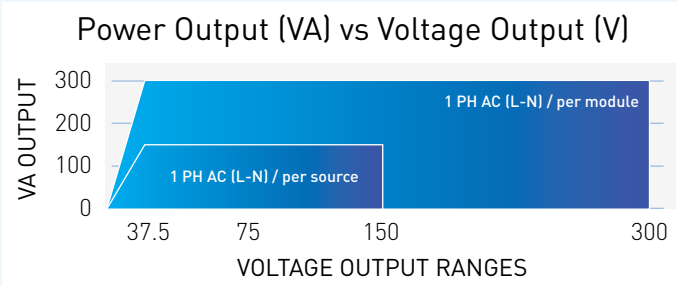
**The HVA Voltage Module** provides two 150 V sources at 150 VA or one 300 V source at 300 VA with both channels connected in parallel. The **F8810 Convertible Mode** option converts outputs of the HVA Voltage Module into high-VA/low-range current sources.

Use Protection Suite and RTS software to set source configurations in the HVA Voltage Module and to assign colors to the LEDs. The LED light rings indicate the placements of test lead connections for voltage sources and will alert if source issues are detected.

For safety and to prevent hardware damage, the HVA Voltage Module automatically stops operating and the LEDs turn red when sensing short circuit conditions.



## F8000 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	
 <p style="text-align: center;"><b>Power Output (VA) vs Voltage Output (V)</b></p>		
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 <sup>9</sup> / <sub>16</sub> inches (11.6 cm) H: 2 <sup>3</sup> / <sub>16</sub> inches (5.6 cm) D: 7 <sup>7</sup> / <sub>16</sub> inches (20 cm)
	Weight	2.1 lbs. (0.95 kg)



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