DOBLE PROTECTION TESTING

F8000 HIGH VA CURRENT MODULE

Two analog sources with intelligent LED light rings

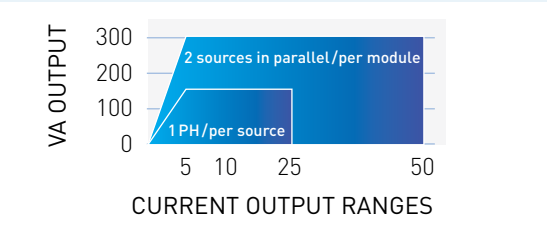
F8000 modules take the guess work out of test connections and troubleshooting. A unique feature of F8000 modules is the programmable analog ports with innovative LED light rings. The engineer or test technician can assign color combinations to the LED light rings in Protection Suite and RTS software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

The HVA Current Module provides two 25 A sources at 150 VA each. When both sources are connected in parallel, 50 A at 300 VA continuous power is produced. Transient mode extends power and range up to 90 A at 300 VA for 30 seconds. DC output is 50 A.

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

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

F8000 HVA Current Module Technical Data

Power	AMPLIFIER RANGES					
		Amps	Time	Volt-Amps	Compliance Voltage	Output Voltage
	Single	5 A	Continuous	150 VA	27.5 Vrms, 40 Vpk	30 Vrms
		10 A	Continuous	150 VA	27.5 Vrms, 40 Vpk	15 Vrms
		25 A	Continuous	150 VA	27.5 Vrms, 40 Vpk	6 Vrms
	Parallel	10 A	Continuous	300 VA	27.5 Vrms, 40 Vpk	30 Vrms
		20 A	Continuous	300 VA	27.5 Vrms, 40 Vpk	15 Vrms
		50 A	Continuous	300 VA	27.5 Vrms, 40 Vpk	6 Vrms
	Series	5 A	Continuous	300 VA	55 Vrms, 80 Vpk	60 Vrms
		10 A	Continuous	300 VA	55 Vrms, 80 Vpk	30 Vrms
		25 A	Continuous	300 VA	55 Vrms, 80 Vpk	12 Vrms
		45 A	Transient (30 seconds)	300 VA	55 Vrms, 80 Vpk	10 Vrms
	DC	25 A at 150 W (single channel) 50 A at 300 W (both channels)				
	Power Output (VA) vs. Current Output (A)					
	Accuracy (50 Hz / 60 Hz @ 20 °C to 30 °C)[2]	±0.15 % of reading + 0.05 % of range				
	Resolution	1 mA				
Frequency	Bandwidth	DC - 3 kHz				
	Range Sine Signals Harmonic, Inter-harmonic, Transient	 1 kHz (DC) 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)[4]	< 0.05°				
	Resolution	0.01°				
General	THD (50 Hz / 60 Hz)[3]	0.25 %				
	Connection	4 mm Banana, lighted (LED)				
	Dimensions	W: 4 9/16 inches (11.6 cm) H: 2 3/16 inches (5.6 cm) D: 7 7/8 inches (20 cm)				
	Weight	1.9 lbs. (0.86 kg)				

[1] RLoad 0.1 - 1.0 Ohms
[2] Accuracy (50 Hz / 60 Hz @ 20 °C to 30 °C) < 2.0 A = 0.09 % reading + 0.1 % range
[3] THD (50 Hz / 60 Hz) > 2.5 A / 1 Ohm @ 20 kHz bandwidth
[4] Balanced loads

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