

# 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	Outputs	2															
	Range	5 A, 10 A, 25 A															
	Accuracy (50 Hz / 60 Hz @ 20 °C to 30 °C) Guaranteed	±0.09 % of reading + 0.04 % of range															
	Resolution	1 mA															
	Source Configurations																
	1-phase AC	1 x 50 A at 300 VA															
	1-phase Transient AC	1 x 90 A at 300 VA															
2-phase AC	2 x 25 A at 150 VA																
2-phase Transient AC	2 x 45 A at 150 VA																
1-phase DC	50 A at 300 W																
2-phase DC	25 A at 150 W																
<p>The graph shows VA Output on the y-axis (0 to 300) and Current Output Ranges on the x-axis (5, 10, 25, 50 A). Two lines represent different configurations: '1 PH/per source' (lower output) and '2 sources in parallel/per module' (higher output). Both show a linear increase in VA output with current output up to 25 A, after which the output remains constant.</p> <table border="1"> <caption>Power Output (VA) vs Current Output (A)</caption> <thead> <tr> <th>Current Output (A)</th> <th>VA Output (1 PH/per source)</th> <th>VA Output (2 sources in parallel/per module)</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>~30</td> <td>~60</td> </tr> <tr> <td>10</td> <td>~60</td> <td>~120</td> </tr> <tr> <td>25</td> <td>~150</td> <td>~300</td> </tr> <tr> <td>50</td> <td>~150</td> <td>~300</td> </tr> </tbody> </table>			Current Output (A)	VA Output (1 PH/per source)	VA Output (2 sources in parallel/per module)	5	~30	~60	10	~60	~120	25	~150	~300	50	~150	~300
Current Output (A)	VA Output (1 PH/per source)	VA Output (2 sources in parallel/per module)															
5	~30	~60															
10	~60	~120															
25	~150	~300															
50	~150	~300															
Frequency	Bandwidth	DC - 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		< 0.02°															
Resolution		0.01°															
General	THD + N (50 Hz / 60 Hz)	0.1 %															
	Connection	4 mm Banana, lighted (LED)															
	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>8</sub> inches (20 cm)															
	Weight	1.9 lbs. (0.86 kg)															



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