



Advanced Test Equipment Corp.

www.atecorp.com 800-404-ATEC (2832)

DOBLE PROTECTION TESTING

F8300 CHASSIS

Seven-module F8000 test set frame

An all-in-one, three-phase protection test instrument.



An F8300 model Power System Simulator is a seven-module F8000-series protection test instrument available in five standard configurations of HVA Current, HVA Voltage, and Low-Density Logic I/O modules.

The embedded Command Module has state-of-the-art digital componentry that works with your existing Protection Suite and RTS test procedures for powerful simulations that include the necessary communication functions for testing modern protection schemes including architectures based on the IEC 61850 standard.

The F8300 comes with a 90 W battery simulator and can be ordered with a wrap-around protective bumper and carrying accessories, or with brackets and hardware for rack-mounting the instrument in 19" racks.

The versatility of F8000-series Power System Simulators like the F8300 let you easily scale your test capabilities to the requirements presented by your protection systems. Simply connect an F8300 to other F8000-series instruments to expand your use case possibilities.



F8300 Chassis Technical Data

Power Supply	Power Supply Range	100 VAC to 240 VAC (-10/+25 V)
	Power Supply Frequency	50/60 Hz ±3 Hz
	Maximum System Power Available	120 VAC / 1800 W 240 VAC / 3200 W
	Maximum Amplifier Power Available	120 VAC / 1800 W limited by system power 240 VAC / 3200 W
Battery Simulator	Range	6 VDC to 300 VDC
	Power Output	90 W
	Resolution	1 V
	Output Current	1.5 A
	Max Voltage Ripple	0.2 % of range
	Accuracy	< ±5 %
Certifications	Environmental	IEC 60068-2-1 (cold storage & operating) IEC 60068-2-2 (dry heat storage & operating) IEC 60068-2-30 (damp heat storage & operating)
	Mechanical	IEC 60068-2-6 (vibration resilience) IEC 60068-2-27 (mechanical shock resilience) IEC 60068-2-64 (rotational drop resilience) IEC 60529 IP20 (water and dust resistance)
	Safety	IEC/EN 61010-1 & UL 61010-1 & CSA C22.2#61010-1-12:2012 IEC/EN 60825-1:2014
	EMC	FCC 47 CFR Part 15, Class A (USA) ICES-001 Issue 3 ISM (Canada) EN55011:2016 AS/NZS CISPR11:2019 EN61326:2013 EN610000-6-2 EN610000-4-2/3/4/5/6/11
	Other	RoHS
Environmental	Operating Temperature	14° to 122° F (-10° to 50° C)
	Storage Temperature	-58° to 185° F (-50° to 85° C)
	Humidity Range	Up to 95 % relative humidity, non-condensing
Chassis	Size	W: 17.25" (43.8 cm) H: 7.75" (19.7 cm) D: 13" (33 cm)
	Frame Weight	22 lbs. (10 kg)



Doble Engineering Company
Worldwide Headquarters
123 Felton Street, Marlborough, MA 01752 USA
tel +1 617 926 4900 | fax +1 617 926 0528
www.doble.com

Specifications are subject to change without notice.
Doble is an ISO 9001 & ISO/IEC 17025 & 17034 Certified Company.
Doble is an ESCO Technologies Company.
PUBLISHED: APRIL, 2023