

DOBLE PROTECTION TESTING

# F8200 CHASSIS

Four-module F8000 test set frame

A compact instrument design for easy portability and rack mounting.



An F8200 model Power System Simulator is a four-module F8000-series protection test instrument available in four 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 F8200 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 F8200 let you easily scale your test capabilities to the requirements presented by your protection systems. Simply connect an F8200 to other F8000-series instruments to expand your use case possibilities.



## F8200 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<br>240 VAC / 3200 W  |
|                   | Maximum Amplifier Power Available | 120 VAC / 1600 W<br>240 VAC / 1600 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)<br>IEC 60068-2-2 (dry heat storage & operating)<br>IEC 60068-2-30 (damp heat storage & operating)  |
|                   | Mechanical                        | IEC 60068-2-6 (vibration resilience)<br>IEC 60068-2-27 (mechanical shock resilience)<br>IEC 60068-2-64 (rotational drop resilience)<br>IEC 60529 IP20 (water and dust resistance) |
|                   | Safety                            | IEC/EN 61010-1 & UL 61010-1 & CSA C22.2#61010-1-12:2012<br>IEC/EN 60825-1:2014  |
|                   | EMC                               | FCC 47 CFR Part 15, Class A (USA)<br>ICES-001 Issue 3 ISM (Canada)<br>EN55011:2016<br>AS/NZS CISPR11:2019<br>EN61326:2013<br>EN610000-6-2<br>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)<br>H: 5.25" (13.3 cm)<br>D: 13" (33 cm)   |
|                   | Frame Weight                      | 13 lbs. (5.9 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](http://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