DOBLE PROTECTION TESTING

F6150e

Power System Simulator

VERSATILE SOLUTION FOR TESTING PROTECTION DEVICES AND SCHEMES

The Doble F6150e is your versatile solution for testing protection relays and schemes. This power system simulator performs the simplest through the most complex tests. Meeting all your testing needs, the F6150e is available in four of different models. Whether you need to test an individual component or test an entire scheme, the F6150e is the proven solution to assess protection system performance.

FEATURES

- Performs standard relay calibration and verification testing of high burden and microprocessor relays
- Analog testing of 1A and 5A protection devices
- Performs state simulation and transient testing
- Tests 0.2-class metering CTs and transducers
- Implements end-to-end testing of communications-based schemes with GPS time syncing
- Maximum of 12 Sources (six voltage, six current) configurable for bench testing and proof-of-concept testing for complicated relaying schemes
- Delivers full VA power with resistive, inductive and capacitive loads at maximum current rating (6x35, 3x70, 1x210 amps)
- Wi-Fi capable (optional)
- Control all sources from a tablet device for basic, manual protection testing

BENEFITS

- Select from a number of instrument models that feature varying power levels and complexity. Choose the best solution according to your testing and budgetary requirements.
- Rugged construction and proven state-of-the art design provide laboratory accuracy with uncompromising field performance
- Convenient front-panel display indicates active voltage/current amplitudes and phase values during testing
- High-precision measurements for energy meter and transducer testing

DOBLE F6150e CUSTOMIZED MODELS

NAME	F6150e	F6150e-D	F6150e-SP	F6150e-IRC
DESCRIPTION	PREMIER MODEL	DISTRIBUTION MODEL	SINGLE PHASE MODEL	IRC MODEL
Applications	Test traditional electromechanical, electronic and microprocessor relays and devices Maximum power to test high-burden relays Test complex schemes	Test digital three-phase systems Test single phase & low-burden, three phase relays	Test single phase relays	Test S&C Electric IntelliRupter® and other devices using low-level sources
Technical Highlights	Maximum of 12 high-level analog sources are available at any time Maximum of 12 low-level analog sources are available at any time	Maximum of 8 high-level analog sources are available at any time Maximum of 8 low-level analog sources are available at any time	Maximum of 4 high-level analog sources are available at any time Maximum of 4 low-level analog sources are available at any time	Maximum of 12 low-level analog sources are available at any time
Technical Details	6 AC/DC Amplifiers: 3 x 150 VA Voltages & 3 x 150/225 VA currents AC volts: (1 x 600 V), (3 x 300 V), (6 x 150 V) AC amps: (1 x 180 A), (3 x 60 A), (6 x 30 A) Each 150 VA Voltage/Current amplifier can be split into 2 x 75 VA sources; total 12 sources	4 AC/DC Amplifiers: 2 x 150 VA Voltages, 2 x 175/262.5 VA currents AC volts: (1 x 600 V), (2 x 300 V), (4 x 150 V) AC amps: (1 x 120 A), (2 x 60 A), (4 x 30 A) Each 150 VA Voltage/Current amplifier can be split into 2 x 75 VA sources; total 8 sources	2 AC/DC Amplifiers: 1 x 150 VA Voltages, 1 x 175/262.5 VA currents AC volts: (1 x 300 V), (2 x 150 V) AC amps: (1 x 60 A), (2 x 30 A) Each 150 VA Voltage/Current amplifier can be split into 2 x 75 VA sources; total 4 sources	
	WITH OPTIONAL F6005 INCLUDED	WITH F6005 OPTION INCLUDED	WITH F6005 OPTION INCLUDED	
	Each 175/262.5 VA Current amplifier can be split into 2 x 87.5/131.25 VA sources; total 6 sources AC amps: (1 x 210 A), (3 x 70 A), (6 x 35 A) Each 175/262.5 VA Current source can be combined into 1 x 525/787.5 VA source or 1 x 175/262.5 VA & 1 x 350/525 VA sources	Each 175/262.5 VA Current amplifier can be split into 2 x 87.5/131.25 VA sources; total 4 sources AC amps: (1 x 140 A), (2 x 70 A), (4 x 35 A) Each 175/262.5 VA Current source can be combined into 1 x 350/525 VA source	The 175/262.5 VA Current amplifier can be split into 2 x 87.5/131.25 VA sources; total 2 sources AC amps: (1 x 70 A), (2 x 30 A)	

Doble Engineering Company
Worldwide Headquarters
85 Walnut Street, Watertown, MA 02472 USA
tel +1 617 926 4900 | fax +1 617 926 0528
www.doble.com

MKT_SL_MKT_SL_F6150e_08/15