

## 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	<p>Test traditional electromechanical, electronic and microprocessor relays and devices</p> <p>Maximum power to test high-burden relays</p> <p>Test complex schemes</p>	<p>Test digital three-phase systems</p> <p>Test single phase &amp; low-burden, three phase relays</p>	<p>Test single phase relays</p>	<p>Test IntelliRupter® PulseCloser® Fault Interrupter and other devices using low-level sources</p>
Technical Highlights	<p>Maximum of 12 high-level analog sources are available at any time</p> <p>Maximum of 12 low-level analog sources are available at any time</p>	<p>Maximum of 8 high-level analog sources are available at any time</p> <p>Maximum of 8 low-level analog sources are available at any time</p>	<p>Maximum of 4 high-level analog sources are available at any time</p> <p>Maximum of 4 low-level analog sources are available at any time</p>	<p>Maximum of 12 low-level analog sources are available at any time</p>
Technical Details	<p>6 AC/DC Amplifiers: 3 x 150 VA Voltages &amp; 3 x 150/225 VA currents</p> <p>AC volts: (1 x 600 V), (3 x 300 V), (6 x 150 V)</p> <p>AC amps: (1 x 180 A), (3 x 60 A), (6 x 30 A)</p> <p>Each 150 VA Voltage/Current amplifier can be split into 2 x 75 VA sources; total 12 sources</p>	<p>4 AC/DC Amplifiers: 2 x 150 VA Voltages, 2 x 175/262.5 VA currents</p> <p>AC volts: (1 x 600 V), (2 x 300 V), (4 x 150 V)</p> <p>AC amps: (1 x 120 A), (2 x 60 A), (4 x 30 A)</p> <p>Each 150 VA Voltage/Current amplifier can be split into 2 x 75 VA sources; total 8 sources</p>	<p>2 AC/DC Amplifiers: 1 x 150 VA Voltages, 1 x 175/262.5 VA currents</p> <p>AC volts: (1 x 300 V), (2 x 150 V)</p> <p>AC amps: (1 x 60 A), (2 x 30 A)</p> <p>Each 150 VA Voltage/Current amplifier can be split into 2 x 75 VA sources; total 4 sources</p>	
	<p><b>WITH OPTIONAL F6005 INCLUDED</b></p> <p>Each 175/262.5 VA Current amplifier can be split into 2 x 87.5/131.25 VA sources; total 6 sources</p> <p>AC amps: (1 x 210 A), (3 x 70 A), (6 x 35 A)</p> <p>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 &amp; 1 x 350/525 VA sources</p>	<p><b>WITH F6005 OPTION INCLUDED</b></p> <p>Each 175/262.5 VA Current amplifier can be split into 2 x 87.5/131.25 VA sources; total 4 sources</p> <p>AC amps: (1 x 140 A), (2 x 70 A), (4 x 35 A)</p> <p>Each 175/262.5 VA Current source can be combined into 1 x 350/525 VA source</p>	<p><b>WITH F6005 OPTION INCLUDED</b></p> <p>The 175/262.5 VA Current amplifier can be split into 2 x 87.5/131.25 VA sources; total 2 sources</p> <p>AC amps: (1 x 70 A), (2 x 30 A)</p>	



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 Doble is ISO certified.  
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 MKT\_SL\_MKT\_SL\_F6150e\_03/18

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