DOBLE PROTECTION TESTING

F6150sv

Power System Simulator

ALL-IN-ONE SOLUTION FOR TESTING IEC 61850-BASED PROTECTION DEVICES AND SCHEMES The Doble F6150sv is your versatile solution for testing IEC 61850-based protection devices and schemes. This power system simulator performs the simplest through the most complex tests. The F6150sv has the highest output current of any simulator on the market - all within a single box. Meeting all your testing needs, the F6150sv is available in three different models. The F6150sv tests IEC 61850-based systems at the process level and station level using both sampled values and G00SE messages.*

FEATURES

- Simulate three streams of IEC 61850 9-2LE sampled values through one fiber-optic port and one copper (RJ45) port*
- Wi-Fi capable (optional)
- Simulates (publishes) and subscribes to IEC 61850 GOOSE messages involving multiple IEDs**
- Performs standard relay calibration and verification testing of high-burden (electromechanical), solid-state, and microprocessor-based relays
- Delivers full VA power with resistive, inductive and capacitive loads at maximum current rating. The following ranges are available with the F6005 Enhanced Rating Option: (6 x 35, 3 x 70, 1 x 210 A).
- 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 high-level analog sources (six voltage, six current)
 configurable for bench testing and proof-of-concept testing for complicated relaying schemes

BENEFITS

- Select from a number of instrument models that feature various 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





^{*}F6870 Sampled Values option required

^{**}F6860 GSE Configurator option required

DOBLE F6150sv CUSTOMIZED MODELS

NAME	F6150sv	F6150sv-SGD	F6150sv-IEC
DESCRIPTION	PREMIER MODEL	GRID DISTRIBUTION MODEL	IEC MODEL
Applications	Test IEC 61850-based protection devices and schemes	Test IEC 61850-based protection devices and schemes	Test IEC 61850-based protection devices and schemes
	Maximum power to test high- burden relays	Test digital three-phase systems	Test the IntelliRupter® PulseCloser® Fault Interrupter and other devices using low-level sources
	Test complex schemes Run in mixed mode	Test single-phase & low-burden, three-phase relays	
Technical Highlights	Maximum of 12 high-level analog sources are available at any time	Maximum of 8 high-level analog sources are available at any time	Maximum of 12 low-level analog sources are available at any time
	Maximum of 12 low-level analog sources are available at any time	Maximum of 8 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	4 AC/DC Amplifiers: 2 x 150 VA Voltages, 2 x 175/262.5 VA currents	
	AC volts: (1 x 600 V), (3 x 300 V), (6 x 150 V)	AC volts: (1 x 600 V), (2 x 300 V), (4 x 150 V)	
	AC amps: [1 x 180 A], [3 x 60 A], [6 x 30 A]	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 12 sources	Each 150 VA Voltage/Current amplifier can be split into 2 x 75 VA sources; total 8 sources	
	WITH OPTIONAL F6005 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	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 210 A), (3 x 70 A), (6 x 35 A)	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 525/787.5 VA source or 1 x 175/262.5 VA & 1 x 350/525 VA sources	Each 175/262.5 VA Current source can be combined into 1 x 350/525 VA source	

