



# PI-2500 Gen2

## Portable Circuit Breaker Test Set



### Our Mission is Reliability

ETI Precision manufactures industry-leading high-current circuit breaker testers and AC/DC variable power supplies. Our products are manufactured in the USA and deployed at testing companies and within critical environments nationwide, ensuring technical functionality, accuracy, and increased equipment availability.

### DESCRIPTION

The PI-2500 Gen2 is a rugged, durable, and easy to use high-current primary injection test set. Its size and weight provides unequalled flexibility for testing within a confined space such as a basement or rooftop location. The steel enclosure is clear of protruding components and full-width handles with provisions for lifting hooks are on both ends. Locking swivel castors provide ease of mobility.

- **Peak Output of 25,000A:** This test set achieves peak output of approximately 25,000A making the unit ideal for testing draw-out breakers and molded-case breakers up to 2,000A continuous.
- **Maximum Versatility:** With an output transformer with dual primaries and secondaries, the PI-2500 Gen2 provides optimal impedance matching to a wide range of breaker sizes.
- **Convenient Preset Outputs:** The PI-2500 Gen2 is built with various pulse preset modes providing additional testing capabilities for electromechanical and solid state trip devices. A short preset pulse duration and a long preset time can be used to test between instantaneous tripping and heat runs on cables or other devices.
- **Serial Port:** The PI-2500 Gen2 has a standard serial port that may be connected to a printer, computer, or other device to print or store time and current values of test results in ASCII format.
- **Prioritizing Safety:** An internal voltage sensor automatically configures the AC control power section to be energized only when properly configured for the applied voltage. The PI-2500 Gen2 also provides temperature protection for the output bus and the vernier Powerstat™ to ensure that neither temperature exceeds a safe operating level.

### APPLICATIONS

This test set will test low-voltage, molded-case and metal-clad, direct acting AC circuit breakers from various manufacturers. The test set can also be used for high current applications like ratio transformers and heat runs. Using SCR's, the PI-2500 Gen2 eliminates closing time errors. Initiation at the zero crossover point eliminates DC offset in the current waveform and results in accurate, repeatable test results even with short-duration currents for high speed solid state or electromechanical trip devices.

### REQUEST A QUOTE TODAY

Contact our experts at [info@etiprecision.com](mailto:info@etiprecision.com) or 410-857-1880. Not sure if the PI-2500 Gen2 is right for you? We are available to offer advice and consultations to help you select the right products for your business.

# SPECIFICATIONS<sup>1</sup>

## PI-2500 Gen2 Output Current & Overload Capabilities

7.6V (Par)	15.2V (Series/Par)	30.4V Series	Overload	Duty	Max ON Time <sup>2</sup>	Min OFF Time	Max Input Curr 480V	Max Input Curr 240V
2000 A	1000 A	500 A	1X	100%	Continuous	N/A	32 A	64 A
2800 A	1400 A	700 A	1.4 X	50%	15 Min	15 Min	45 A	90 A
4000 A	2000 A	1000 A	2 X	25%	5 Min	15 Min	64 A	128 A
8000 A	4000 A	2000 A	4 X	6%	1 Min	15 Min	128 A	256 A
12000 A	6000 A	3000 A	6 X	2%	6 Sec	2 Min	192 A	384 A
16000 A	8000 A	4000 A	8 X	1.6%	1 Sec	1 Min	256 A	512 A
20000 A	10000 A	5000 A	10 X	1%	0.5 Sec	1 Min	320 A	640 A
25000 A	12500 A	6250 A	MAX	0.1%	0.03 Sec	1 Min	400 A	800 A

<sup>1</sup> Specifications subject to change without notice

<sup>2</sup> Max ON time will be less at 208/240VAC & best results at 480VAC input

- Current Ranges:**
  - 0-1000 Amps · 25 Kilo-Amps
  - 5 Kilo-Amps · 100 Kilo-Amps

- Current Accuracy:**
  - +/- 0.5% of reading + 0.5% of range continuous
  - +/- 1% of reading + 1% of range pulse

- Timer Ranges:**
  - 0-9999.999 Seconds
  - 0-9999.9 Cycles

- Timer Accuracy:**
  - +/- 0.5% of Reading +/- 1 Count

- Digital Voltmeter Input:**
  - Range: 0-600 VAC
  - Accuracy 1% of Full Scale

- Dimensions and Weight:**
  - Height: 45.0 in. (114.3 mm)
  - Width: 30.0 in. (76.2 mm)
  - Depth: 25.0 in. (63.5 mm)
  - Weight: 700 lb. (317 kg)

- Serial Port:**
  - Standard serial port for connection to printer, computer, or other device to print or store time and current values in ASCII format.

- Input Supply:**
  - 208/240 or 480 VAC + 10%, -15% (Switch Selectable), Single Phase
  - 60 Hz (50 Hz at 10% Lower Maximum Line Voltages)
  - 15 KVA (Continuous) at 12 KVA Output (80% Efficiency)



### Standard Accessories:

Accessory	Part #	Quantity
1/2 inch Stabs (horizontal or vertical)	M-I211	2 EA
3/4 inch Stabs (horizontal or vertical)	M-I212	2 EA
Contact Leads	S-B194	1 EA
Remote Initiate Cable	S-B143	1 EA
Power Input Lead Set (20 feet)	OP-120-2	1 EA
Rugged Accessory Case	M-E226	1 EA
Technical Manual	S-A123	1 EA
Stab Adapter Kit	S-B343	1 EA

### Optional Accessories:

Accessory	Part #
MAC Report Generator Software	OP-112

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