



ETI PRECISION

PI-5000 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-5000 Gen2 is a rugged, durable, and easy to use high-current primary injection test set. Its two piece modular design provides unequaled 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 60,000A:** This test set achieves peak output of approximately 60,000A making the unit ideal for testing draw-out breakers and molded-case breakers up to 4,000A continuous.
- **Maximum Versatility:** With an output transformer with dual primaries and secondaries, the PI-5000 Gen2 provides optimal impedance matching to a wide range of breaker sizes.
- **Convenient Preset Outputs:** The PI-5000 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-5000 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-5000 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-5000 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 or 410-857-1880. Not sure if the PI-5000 Gen2 is right for you? We are available to offer advice and consultations to help you select the right products for your business.

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:

PI-2500 Control Unit

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

Dimensions and Weight:

PI-5000 AUX Unit

- Height: 32.0 in. (81.2 cm)
- Width: 30.0 in. (76.2 cm)
- Depth: 25.0 in. (63.5 cm)
- Weight: 680 lb. (308 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)
- 45 KVA (Continuous) at 36 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
Bus Interconnect	S-B473	1 EA
Interconnect	S-B477	1 EA
Stab Adapter Kit	S-B343	1 EA

SPECIFICATIONS¹

PI-5000 Gen2 Output Current & Overload Capabilities

7.6V (Par)	15.2V (Series)	Overload	Duty	Max ON* Time	Min OFF Time	Max Input Curr 480V	Max Input Curr 240V
4000 A	2000 A	1X	100%	Continuous	N/A	96 A	192 A
5600 A	2800 A	1.4 X	50%	15 Min	15 Min	134 A	268 A
8000 A	4000 A	2 X	25%	5 Min	15 Min	192 A	384 A
16000 A	8000 A	4 X	6%	1 Min	15 Min	384 A	768 A
20000 A	10000 A	6 X	2%	6 Sec	2 Min	480 A	960 A
32000 A ²	16000 A ²	8 X	1.6%	1 Sec	1 Min	672 A	³
40000 A ²	20000 A ²	10 X	1%	0.5 Sec	1 Min	960 A	³
60000 A ²	30000 A ²	MAX	0.1%	0.03 Sec	1 Min	1440 A	³

¹Specifications subject to change without notice

²Available with 480 VAC input only

³Not available 240 Volt Input

⁴Max ON Times will be less at 208 or 240 VAC



Optional Accessories:

Accessory	Part #
MAC Report Generator Software	OP-112
Universal Adjustable Stab System	OP-124

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