



PI-6000

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-6000 is a rugged, durable, and easy to use high-current primary injection test set. The unit is constructed in a steel enclosure with removable sides and top for easy access to internal components. The sides are clear of protruding components and full-width handles with provisions for lifting hooks are on both ends. Locking swivel castors on all four corners 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 6000A continuous.
- **Maximum Versatility:** With an output transformer with dual primaries and secondaries, the PI-6000 provides optimal impedance matching to a wide range of breaker sizes.
- **Convenient Preset Outputs:** The PI-6000 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-6000 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-6000 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-6000 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-6000 is right for you? We are available to offer advice and consultations to help you select the right products for your business.

SPECIFICATIONS¹

PI-6000 Output Current & Overload Capabilities

9V (Parallel)	18 V (Series)	Overload	Duty	Max ON Time	Min OFF Time	Max Input Current 480 V
6000 A	3000 A	1X	100%	Continuous	N/A	121 Amps
8400 A	4200 A	1.4 X	50%	15 Min	15 Min	175 Amps
12000 A	6000 A	2 X	25%	5 Min	15 Min	260 Amps
18000 A	9000 A	3 X	10%	1.5 Min	15 Min	415 Amps
24000 A	12000 A	4 X	6%	45 Sec	15 Min	582 Amps
30000 A	15000 A	5 X	4%	4 Sec	2 Min	776 Amps
42000 A ²	21000 A ²	7 X	2%	2 Sec	2 Min	1208 Amps
60000 A ²	30000 A ²	10 X	1%	1 Sec	2 Min	1982 Amps

¹Specifications subject to change without notice.

²Available with 480 VAC input only

Current Ranges:

- 0-1000 Amps
- 5 Kilo-Amps
- 25 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 cm)
- Width: 48.0 in. (121.92 cm)
- Depth: 27.25 in. (69.22 cm)
- Weight: 1250 lb. (567 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-A129	1 EA



Optional Accessories:

Accessory	Part #
MAC Report Generator Software	OP-112
Universal Adjustable Stab System	OP-124
Series Output Bar	M-I213

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