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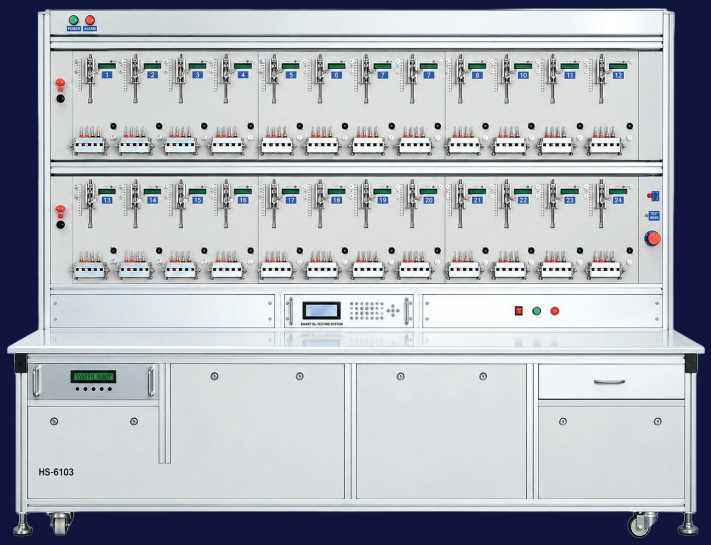
SINGLE PHASE ENERGY METER TEST BENCH

EP1TB01 Single-Phase Energy Meter Test Bench uses SPWM digital amplification technology and a high-accuracy digital reference standard meter. It incorporates multi-channel voltage transformers to support simultaneous, multiposition energy-meter testing.

The system is designed for accuracy verification, error testing, starting and creeping tests, communication testing, and other functional evaluations of single-phase energy meters.

Available in 16, 24 and 32 position.



TEST EQUIPMENT

SINGLE PHASE ENERGY METER TEST BENCH

Key Features

- Multi-position energy-meter testing
- SPWM digital amplification technology
- Reference meter accuracy classes from 0.03 to 0.1
- Voltage output range of 300–30 V
- Current output range of 1 mA–120 A
- Optional current output up to 200 A
- Adjustable phase angle and frequency
- Low waveform distortion
- RS485, RS232, infrared and carrier-wave communication
- Supports DL/T 2007/1997-645, DL/T 698.45 and IEC 1107
- Integrated and split-system configurations available
- Resistive, inductive and capacitive load support

Technical Specification

Parameter	Specification
Voltage output range	30–300 V
Current output range	1 mA–120 A
Optional current range	Up to 200 A
Phase angle	0–360°
Phase-angle resolution	0.01°
Frequency range	45–65 Hz
Frequency resolution	0.01 Hz
Voltage/current waveform distortion	<0.5% with linear load
Power stability–0.03 class	<0.02% over 120 seconds
Power stability–0.05/0.1 class	<0.05% over 120 seconds
Minimum starting-current output	0.3 mA
Starting-current accuracy	2%
Starting-power accuracy	5%
6 positions	300 VA | 250VA at 100A
16 positions	300 VA | 900VA at 100A
Expanded configuration	Up to 1,200 VA | Up to 2,000A

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