

DC POWER & ENERGY **COMPREHENSIVE CALIBRATION SOLUTION**



















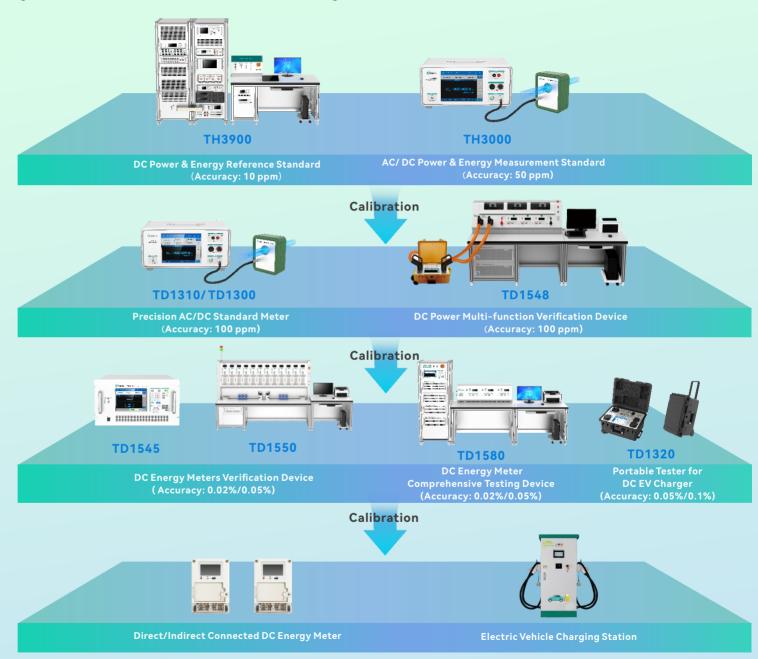




DC Power Traceability & Calibration Product System

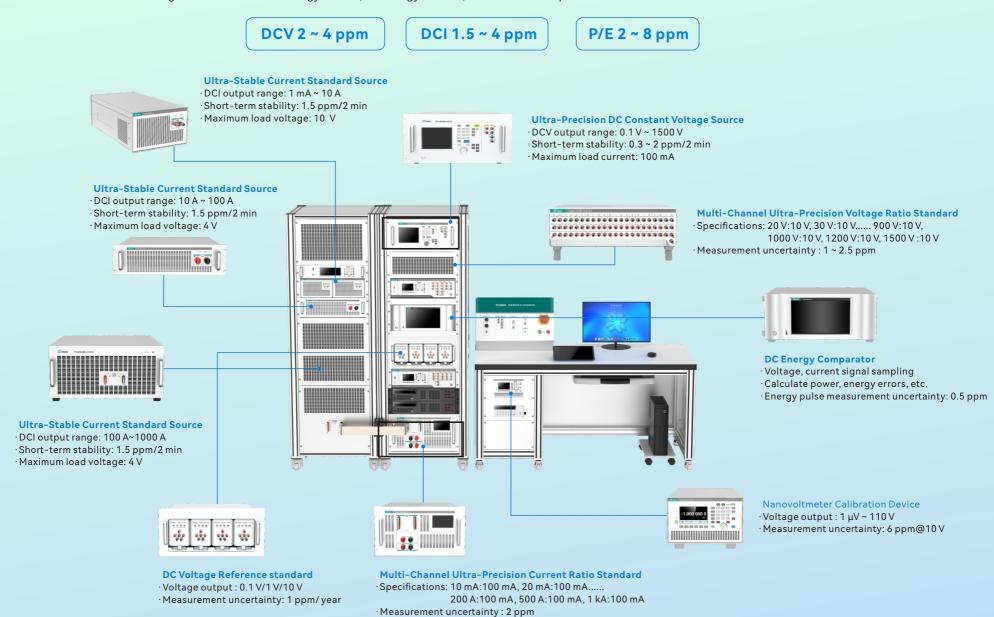
APPLICATON

- Metrology Institute
- Electrical Laboratory
- Calibration Laboratory
- Energy Meter Manufacturer
- Sensor Manufacturer
- DC Charging Facilities
- Power Industry
- University Research
- Rail Transportation
- EV Charger Testing



TH3900 DC Power & Energy Reference Standard

It has high stability, high accuracy, strong functionality, low temperature drift, and is suitable for the calibration and traceability of high-level DC standard energy meters, DC energy devices, and DC standard power sources/meters.



TH3000 AC/ DC Power & Energy Measurement Standard



 High-precision, multi-functional power standard, which integrates AC/DC standard voltmeter, ammeter, small-signal voltmeter, AC/DC energy measurement, ripple measurement, harmonic measurement and other functions.

DC Power/Energy Accuracy: 50 ppm
 DCV measurement: 10 mV ~ 1150 V, accuracy: 20 ppm
 DCI measurement: 10 μA ~ 120 A, accuracy: 30 ppm

Support the transducer to expand the current range to 500 A or more

Small-signal DCV measurement: 0.1 m V ~ 12 V

Support DC ripple and AC 2nd~63rd harmonic measurement

TD1310 Precision AC/DC Standard Meter



- Integrates voltage, current, energy measurement, ripple measurement, harmonic measurement and other functions. It is applicable to calibrate AC/DC current source, AC/DC voltage source, AC/DC power source and AC/DC energy measurement device.
- Power/ Energy Accuracy: DC 100 ppm, AC 200 ppm
 Voltage/current accuracy: DC 50 ppm, AC 100 ppm
 DCV measurement: 10 mV ~ 1150 V, 0.1 mV ~ 12 V (small signal)
 DCI measurement: 10 μA ~ 120 A, 500 A,1 kA and more range
 Support DC ripple and AC 2nd~63rd harmonic measurement
 Standard energy pulse input / output

TD1548 DC Power Multi-function Verification Device



- It consists of precision DC voltage source, DC current source, DC small signal voltage source, clock calibrator, multi-function calibration bench, calibration software, etc. It can calibrate conventional DC electrical measuring instruments, DC shunts, DC standard energy meters, and electric vehicle DC charger tester.
- Accuracy: 100 ppm (power/energy), 50 ppm (current/voltage)
 DCV Output: 10 mV~1150 V / 1550 V, 10 μV~4.4 V (small signal),
 DCI Output: 1 mA~600 A
 Support the verification of three DC energy meters and DC shunts
 Support the verification of single EV DC charger tester
 Standard energy pulse input/output for working errors testing of energy meters

TD1300 Precision DC Standard Meter



 Suitable for calibrating DC current sources, voltage sources, power sources, and for DC energy meters testing devices.

Accuracy: 0.01%/0.02%

DCV measurement : $10 \text{ mV} \sim 1150 \text{ V}, 0.1 \text{ mV} \sim 12 \text{ V}$ (small signal) DCI measurement : $10 \mu A \sim 120 A$, 500 A, 1 kA and more range

Maximum DC ripple measurement bandwidth: 10 kHz

Standard energy pulse input / output

TD1545 DC Energy Meters Verification Device



 Suitable for calibrating DC voltmeters/ammeters/power meters, DC shunt, and DC energy meters.

Accuracy: 0.02%/0.05%

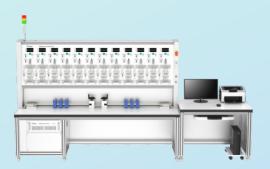
DCV output: 10 mV~1150 V / 1550 V, 10 μ V~4.4 V (small signal)

DCI output: 1 mA~600 A

Standard energy pulse input / output

Portable for operation and forming a testing system

TD1550 DC Energy Meters Verification Device



Suitable for the verification of DC energy meter and DC shunt.
 It consists of DC voltage/current standard source, DC voltmeter,
 multi position verification platform, verification software, etc.

Accuracy: 0.02%/ 0.05%

DCV output: 10 mV~1150 V / 1550 V, 10 µV~4.4 V (small signal)

DCI output: 1 mA~600 A
Unit testing Position: 3 or 6

Standard energy pulse input/output

Auxiliary power supply for dc energy measuring Testing the daily timing error of energy meters



TUNKIA Co., Ltd. stands at the forefront of global manufacturing in high-end instruments catering to electrical and magnetic measurement and calibration. Our technological legacy traces back to 1985, with a steadfast commitment to allocate 25% of our annual revenue to cutting-edge research and development. The TUNKIA Research Institute, housing a team of 120 engineers, actively engages with diverse technical challenges. TUNKIA has been invited by esteemed international standards associations, including IEC and IEEE, to contribute to the formulation and revision of three international standards and over 30 national standards and regulations. We have introduced 22 major series and over 300 models of instruments, serving more than 30,000 clients worldwide.

R&D Team/Total Employees (400+)

30%

D R&D Investment/ **Total Revenue**

25%

nnin Annual Sales **Growth Rate** 50%

3 Internal Standards Revision

18 National Standards Formulation and Revision

23 Metrological Specifications Formulation and Revision

- ·IEC/TC66, TC68,TC42, TC51
- · IEEE/PES Power and Energy Society
- · China Metrology Technical Committee on Electromagnetic
- · Chinese Society for Measurement
- · Electrical Steel Branch of the Chinese Society for Metals
- · China Instrument Manufacturer Association

(Join Various Academic Organizations)

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