TH3900 DC Power Energy Reference Standard

*Reference only

1. Summary

TH3900 is a DC energy reference device with an optimal measurement uncertainty of **10 ppm** for power/energy. It has the characteristics of high stability, high accuracy, strong functionality and low temperature drift.

2. Features

- DC voltage measurement up to 1.15 kV with uncertainty up to **6 ppm**;
- DC current measurement up to 600 A with uncertainty up to **8 ppm**;
- Voltage output stability is better than 6 ppm/min, current stability is better than 8 ppm/min.
- Small-signal voltage with a minimum output of 0.1 mV and an uncertainty of **15 ppm;**
- Both the built-in I/V and V/V conversion standards have an uncertainty of better than 3 ppm.
- The built-in solid state voltage reference has a typical annual variation of ±1.5 μV/V.
- The quantum voltage calibration function is reserved to improve the accuracy of measurement.
- Built-in high precision constant temperature crystal oscillator, standard second pulse uncertainty up to 0.5 ppm.

3. Schematic Diagram