

TI2100 High-stable DC High Current Standard Source



1. Summary

TI2100 is a series of high-stable DC high-current standard sources for industrial testing, which adopts a modular design and supports the combined output of multiple sources to adapt application scenarios with different current specifications.

2. Features

- Accuracy: class 0.01.
- Single current range, no relay shifting.
- Short-term stability is typically better than 0.003% * FS.
- The maximum load voltage of the constant current output is 10 V.
- The unipolar source can be connected to an external commutator (accessory) to realize current commutation.
- A bipolar source (option) generates forward and reverse currents directly through the circuit.
- The constant current output ripple coefficient is less than 0.1%.
- LAN, RS232 interfaces.



3. Applications







- The standard source method is used to calibrate and measure the current sensor.
- It is also suitable for the simultaneous detection of multiple current sensors in production lines.
 (Note: The number of simultaneous access is related to the load size of the sensor being inspected).
- Support docking with the user's automated test system (or customized software) to achieve automatic testing.
- Supported detection items include: basic accuracy error, zero output error, full-scale output error, linearity error, return difference, repeatability error, etc Zero point drift, thermal zero drift (with temperature control box), thermal sensitivity drift (with temperature control box), overload capacity, power influence, The rate of change of load (with load box), etc.



4. Characteristics









kA or more;

• It is equipped with a control module to adjust multiple source outputs, improve the current sharing coefficient, and ensure the stability and accuracy under high-current output.







5. Specifications

Device Rating		Class 0.01
Range	N*1.5k A Specification	N * 1.5 kA
Output Range		(1% ~ 100%)*RG
Current Commutation		Supports external commutator (option).
		Supports bipolar outputs (function option)
Maximum Load Voltage		10 V
Short-term Stability		0.003%*FS
Measurement Uncertainty		
(k=2)		60 + 40
ppm*RD [©] +ppm*RG [®]		
Ripple Coefficient		≤ 0. 1%
Settling Time		≤1 s
		Open circuit protection, overload protection, overtemperature
Circuit		protection
Note		(1) RD is the reading value, (2) RG is the range value



6. General Specifications

Power Supply	Three-phase five-wire, AC 38 0 V \pm 38 V, 50 Hz \pm 2 Hz
Quality (3 kA size).	84.5 kg
Working Environment	0°C ~ 50°C, (20% ~ 85%) R· H, non-condensing
Storage Environment	-20°C ~ 70°C, <85% R· H, non-condensing
Communication Interface	LAN、RS232、USB

7. Ordering Information

