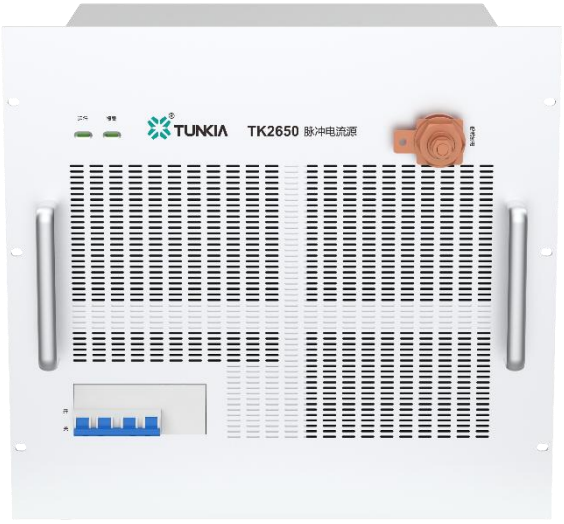
TK2650 Pulse Current Source



(Reference only.)

1. Summary

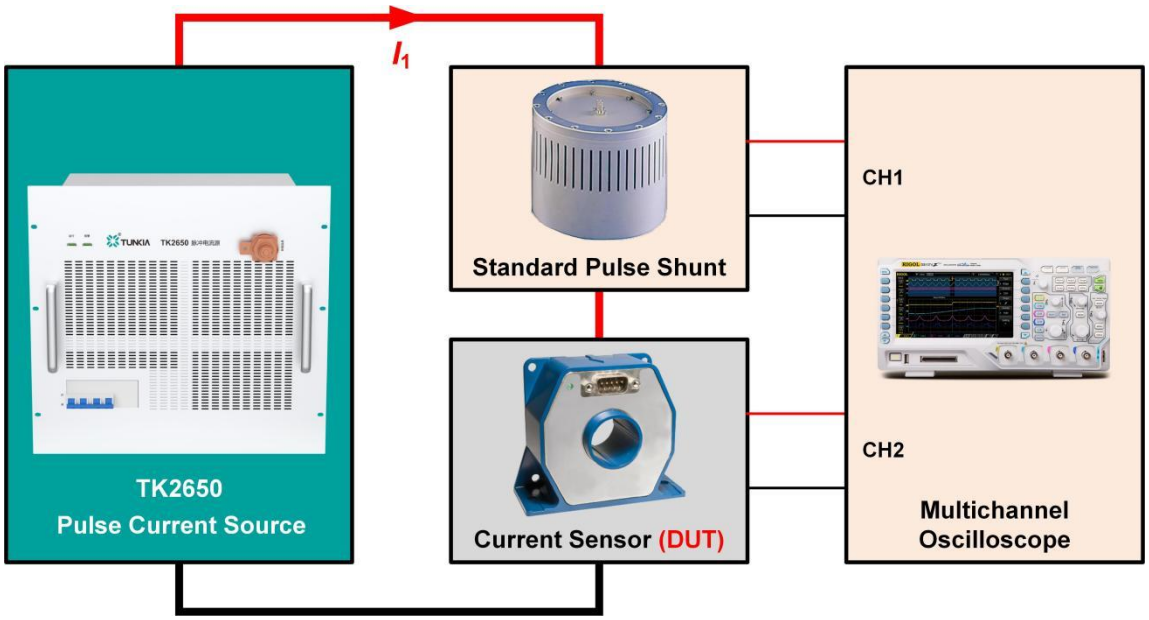
TK2650 is a pulse current source with a maximum output of 500 A pulse current, and its pulse amplitude and pulse width can be set and adjusted.The rise and fall time of pulse is less than 10 μs, and the step response performance is faster. The communication interface of the device can realize computer program control operation, which is suitable for measuring the response time of current sensor, Roche coil and other equipment, or calibrating pulse shunt, etc.

2. Features

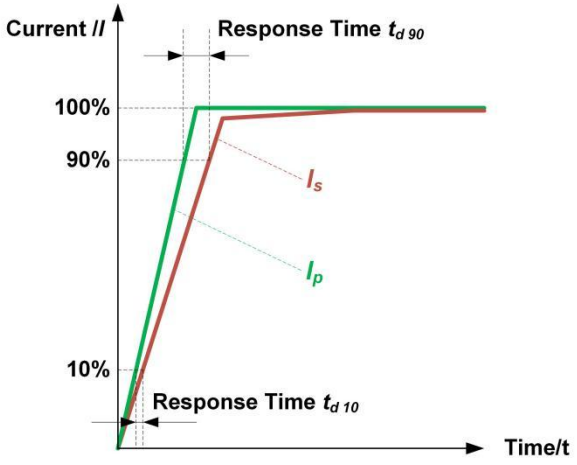
- Pulse current output: 500 A
- Pulse width: 1 ms ~ 100 ms
- Rise time: ≤10 μs

3. Applications

☆ Measure Current Sensor Response Time

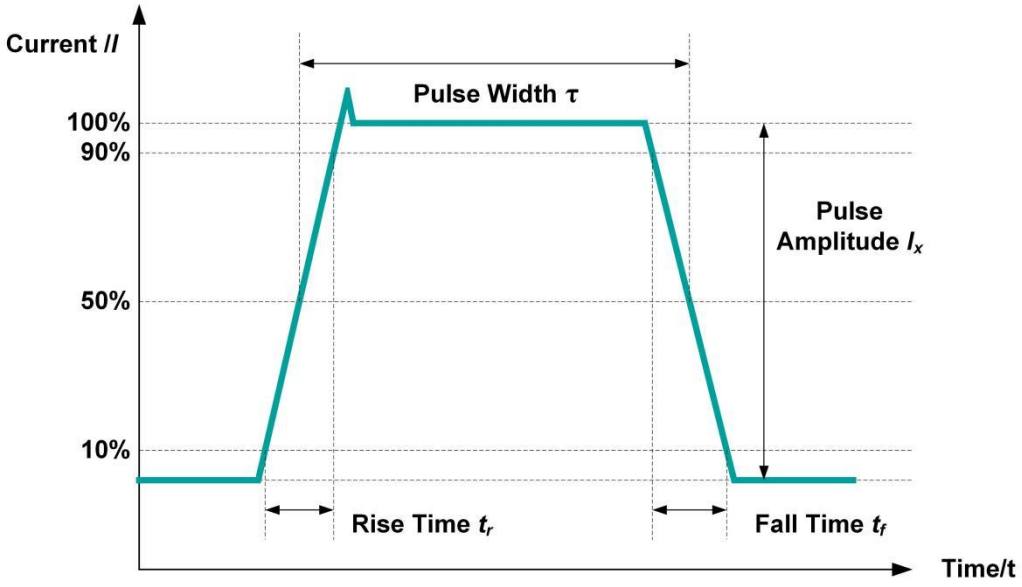


- The resulting step current signal is passed into both the standard pulse shunt in series and the current sensor under test.
- Observe the waveform of the secondary signal of the shunt and sensor through the oscilloscope.
- Using the rise time of the pulse signal as a reference, the response time of the inspected sensor is measured.



4. Characteristics

☆ Rapid Rise



- The output current rises quickly, and the rise time at the output of 500 A is better than 10 μs, and the dI/dt rate is reached 50 A/μs to meet the requirements for signal sources in the relevant detection standards for current sensors.

5. Specifications

Pulse Type	Unipolar pulses
Output Range	10 A ~ 500 A
Adjust the Fineness	0.01%
Amplitude Accuracy	± 0.5%* range
Pulse Width	1 ms ~ 100 ms
Pulse Width Adjustment Step	0.1 ms
Pulse Width Accuracy	±0.1%
Current Rise/Fall Time	≤10 μs
Amplitude of Current Overshoot	≤20%
Maximum Load Voltage	3.5 V_{hp}

6. General Specifications

Power Supply	Three-phase five-wire, AC (38 0±38) V, (50±2) Hz
Maximum Power Consumption	6 kVA
Working Environment	Temperature: 0°C ~ 40°C Humidity: 20% R· H ~ 80%R· H, no condensing Others: No electromagnetic field interference.
Storage Environment	Temperature: -2 0°C ~ 70°C Humidity: <95% R· H, no condensing
Communication Interface	RS232×1