

TK6500 Electric Welding Machine AC/DC

Power Calibrator



1. Summary

TK6500 is a precision AC-DC power calibrator for on-site calibration, which is suitable for calibrating the internal ammeter and voltmeter without disassembling the welding machine.

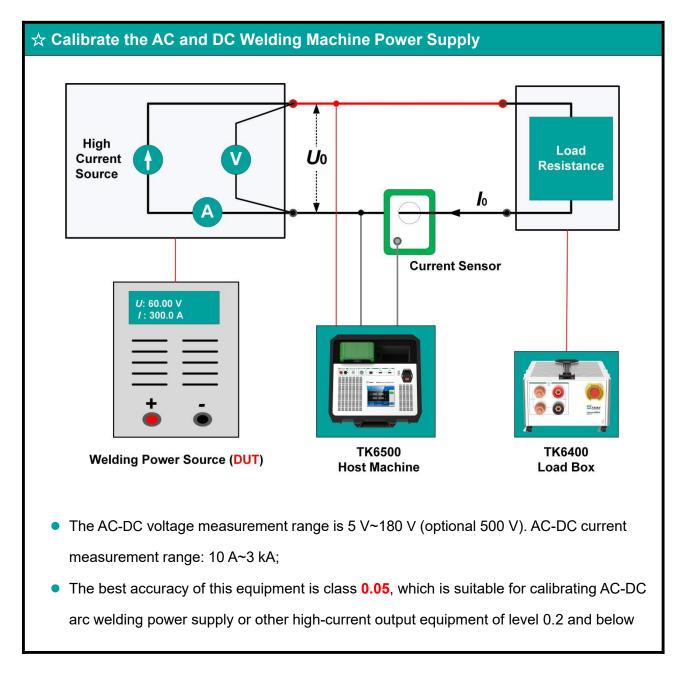
2. Features

- AC and DC Voltage Measurement: 5 V~180 V (optional 500 V).
- AC and DC Current Through-core Measurement: 10 A~3 kA
- F: DC, 40 Hz~1 kHz
- Voltage/Current Accuracy: class 0.05 / class 0.1
- Harmonic Measurement Function
- USB Data Export Function

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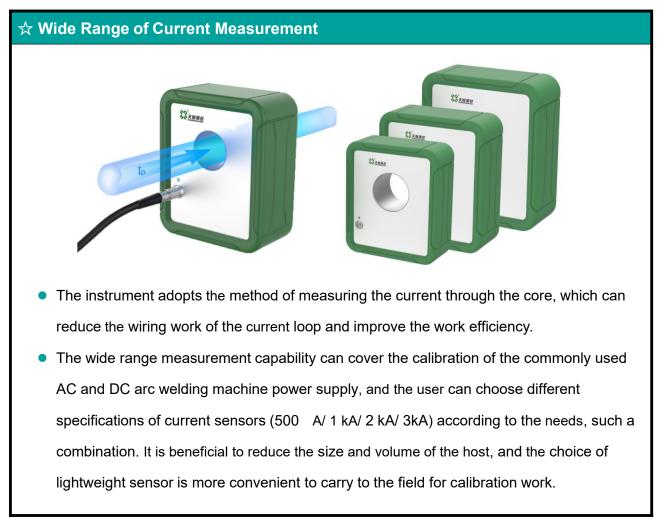


3. Applications





4. Characteristics



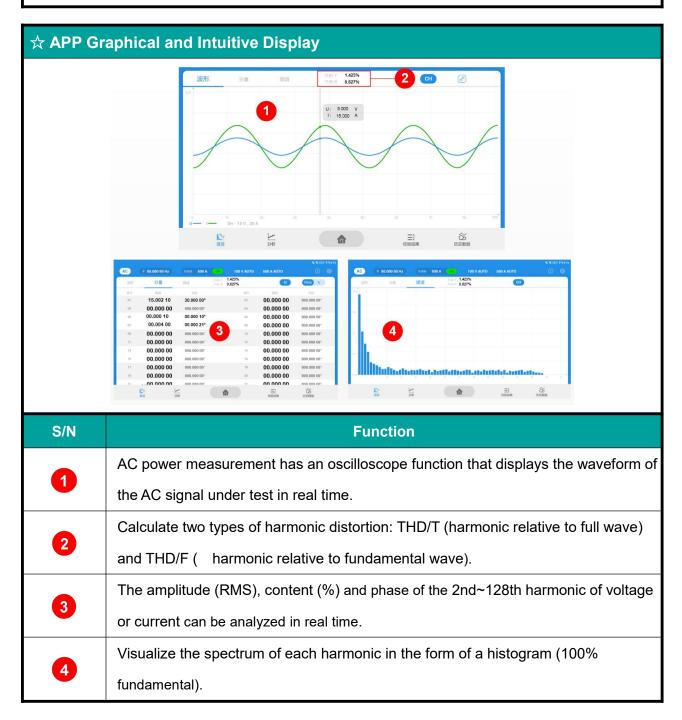
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☆ USB Data Export



Built-in large-capacity memory,
the test data of the inspected
equipment can be quickly saved on site.
After the calibration work is
completed, the original data can be
exported to the computer through the U
disk for sorting and analysis.





☆ Data St	े Data Statistical Analysis					
	AC F 50.000 00 Hz 作時間 500 A 100 V AUTO 500 A AUTO ① ② ■* #1991 密形 XXXX租埠机 原目 XXXXXXXX ② 用価 U 1 25.000 0 V V					
	⁽²²⁾ 300.000 A					
	Image: Second					
S/N	Function					
1	Visual Display Of The Measured Power: The measured voltage and current measurement results are displayed at the same time					
2	Power Trend Test: Curve the power over time in real time during the test cycle.					
3	Power Stability Analysis: calculate the maximum (MAX), minimum value (min), and peak-peak value of the measured electricity (P-P), mean (Avg) , standard deviation (S .dev) , divergence (Div), etc.					



5. Specifications

5.1 AC/DC Voltage Measurement

Voltage range	Resolution	Measurement uncertainty (k=2). (ppm*RD+ppm*RG) ^[1]		Temperature coefficient ppm*RD /℃ @ (15~30) ℃	
		Class 0.1	Class 0.05	Class 0.1	Class 0.05
50 V	100 µV	600 + 400	300 + 200	<20	<10
150 V	1 mV	600 + 400	300 + 200	<20	<10
500 V ^[2]	1 mV	600 + 400	300 + 200	<20	<10
Note [1]: RD is the reading value, RG is the range value, the same below. Note [2]: 500 V ranges are					

optional, other ranges can be customized upon request.

- Measuring Range: 5 V~1 8 0 V or 5 V~500 V (optional), direct measurement, manual or automatic range switching
- Measurement Band: DC, 40 Hz~1 kHz

5.2 AC/DC Current Measurement

Current sensing	Current range	Resolution	Measurement uncertainty (k=2). (ppm*RD+ppm*RG) ^[1]		
selection ^{[3].}			Class 0.1	Class 0.05	
TK6500-T-500A	100A、500A	1 mA	600 + 400	300 + 200	
TK6500-T-1kA	200A、1kA	10 mA	600 + 400	300 + 200	
TK6500-T-2kA	500A、2kA	10 mA	600 + 400	300 + 200	
TK6500-T-3kA	1kA、3kA	10 mA	600 + 400	300 + 200	

Note [3]: The current conversion is carried out by an external current sensor and measured by the host. Users can select the sensor with the right specification according to the size of the measured current to achieve the best measurement accuracy. Other current ranges can be customized by customers.

- Measuring Range: 10 A... 3 kA, indirect measurement, manual or automatic range switching
- Measurement Frequency: DC, 40 Hz~1 kHz



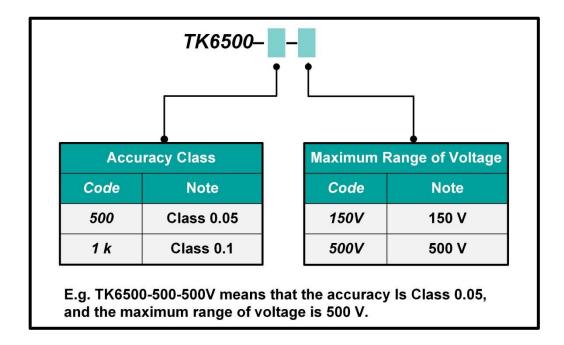
6. General Specifications

Power supply	AC (220 ± 22) V, (50 ± 2) Hz			
Temperature performance	Working Temperature: 0°C~45°C; Storage Temperature: -20 °C ~ 70 °C			
Humidity	Operating Humidity: < 80% @ 30°C, < 70% @ 40°C, < 40% @ 50°C			
performance	Storage Humidity: (20%~80%) R· H, no Condensing			
altitude	< 3000 m			
Quality	Approx. 6.5 kg (without sensor).			
Communicatio				
n interface	USB、LAN			
	390 mm(W) × 395 mm(D) × 260 mm(H)			
Size	390 mm 260 mm 395 mm			



7. Ordering Information

7.1 Main Instrument Ordering Information



7.2 Current Sensor Ordering Information

