

TD7300 Calibrator for Defibrillator Analyzers



1. Summary

TD7300 is a device applied for energy calibration of defibrillator analyzer. It is used for medical equipment manufacturers and medical equipment testing institutions at each level carry out registration inspection, metrological traceability, etc.

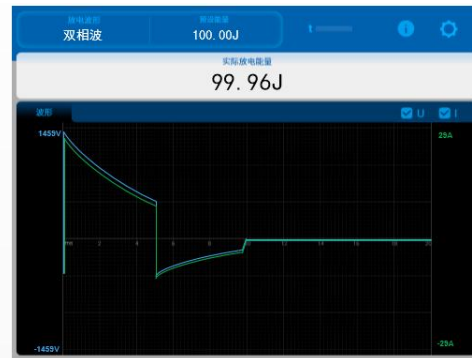
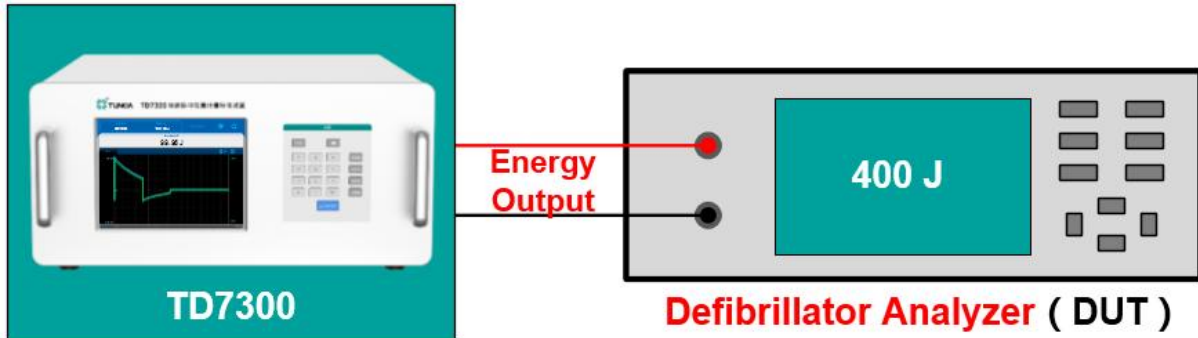
2. Features

- Energy Output: 1 J~400 J
- Maximum Voltage Output: 3700 V
- Discharge Mode: Monophasic Wave (MDS, MTE), Biphasic Wave (BTE)
- Discharge Pulse Duration: about 10 ms~16 ms
- Integrated design of meter and source.
- LCD Touch Screen, with Physical Buttons
- Interface: RS232

3. Application

- Manufacturer of Defibrillator Analyzer
- Measurement and Calibration Units at all levels

☆ Calibrate the Energy Specifications of Defibrillator Analyzer



- Energy output: 1 J~400 J, Maximum voltage output: 3700 V
- Internal energy storage capacitor and equipped with internal discharge circuit, which can discharge manually or automatically after 1min.
- A variety of waveforms such as single and biphasic waves can be selected, and it is operated with an LCD touch screen, which is highly practical.

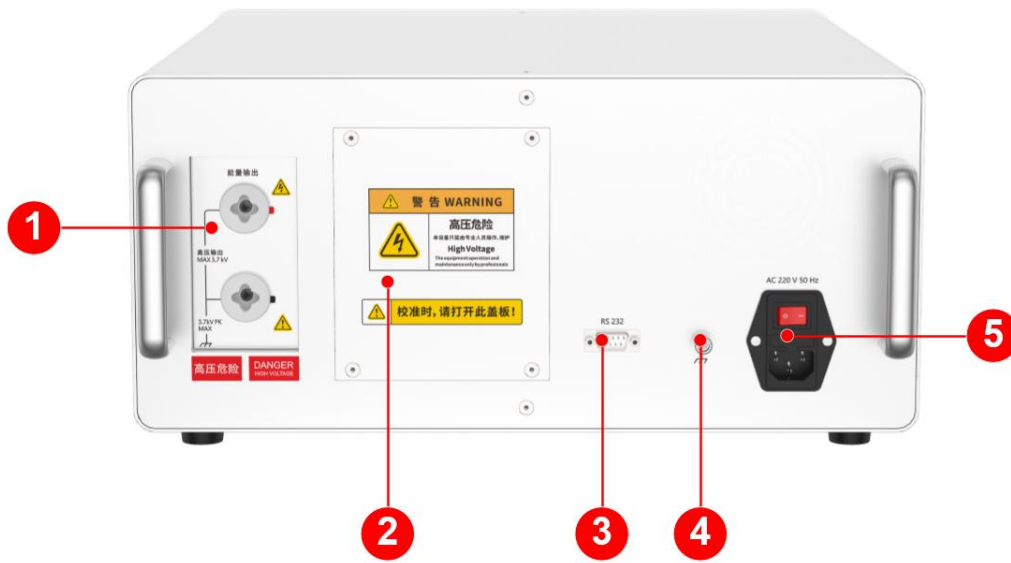
4. Instrument Appearance

☆ Front Panel



S/N	Function
①	Handle: convenient to carry the instrument.
②	LCD Touch Color Screen: intuitive display of multiple electrical parameters and full touch operation, greatly improving the ease of use of the instrument.
③	Button Operation Panel: a variety of value input/adjustment modes greatly improve the operational convenience of the instrument.

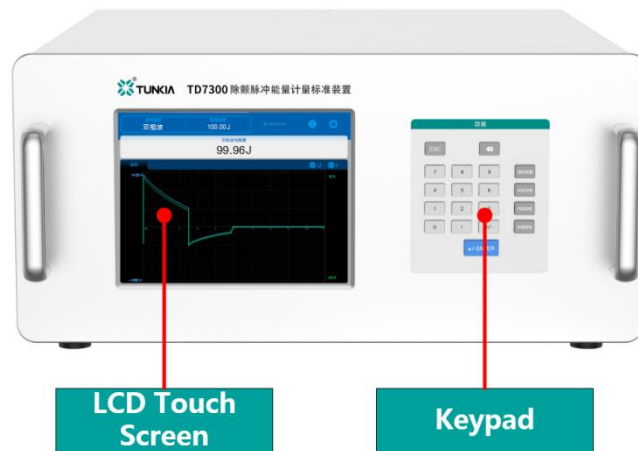
☆ Rear Panel



S/N	Function
1	Energy Output Terminal Block: high voltage can reach 3700 V, pay attention to safety during operation.
2	The instrument has reserved power traceability terminals.
3	RS232 Communication Interface: realizes communication with computer and establishes a fully automatic test system.
4	Chassis Ground: Before using the equipment, make sure that the chassis ground is reliably grounded.
5	Power Interface: AC 220V power input interface with switch and fuse

5. Characteristics

★ Convenient Operation



- LCD screen, supporting touch operation.
- Digital control button: it can realize fixed-point output mode.

Waveform and Energy Settings



Actual Discharge Energy

Voltage and Current Discharge Curve

- **Output Waveform:** The discharge waveform includes biphasic wave and single-phase wave. The bi-phase wave includes voltage and current forward and reverse discharge waveforms, and the single-phase wave only has voltage and current forward discharge waveform. And graphically and intuitively display the discharge curves of voltage and current.

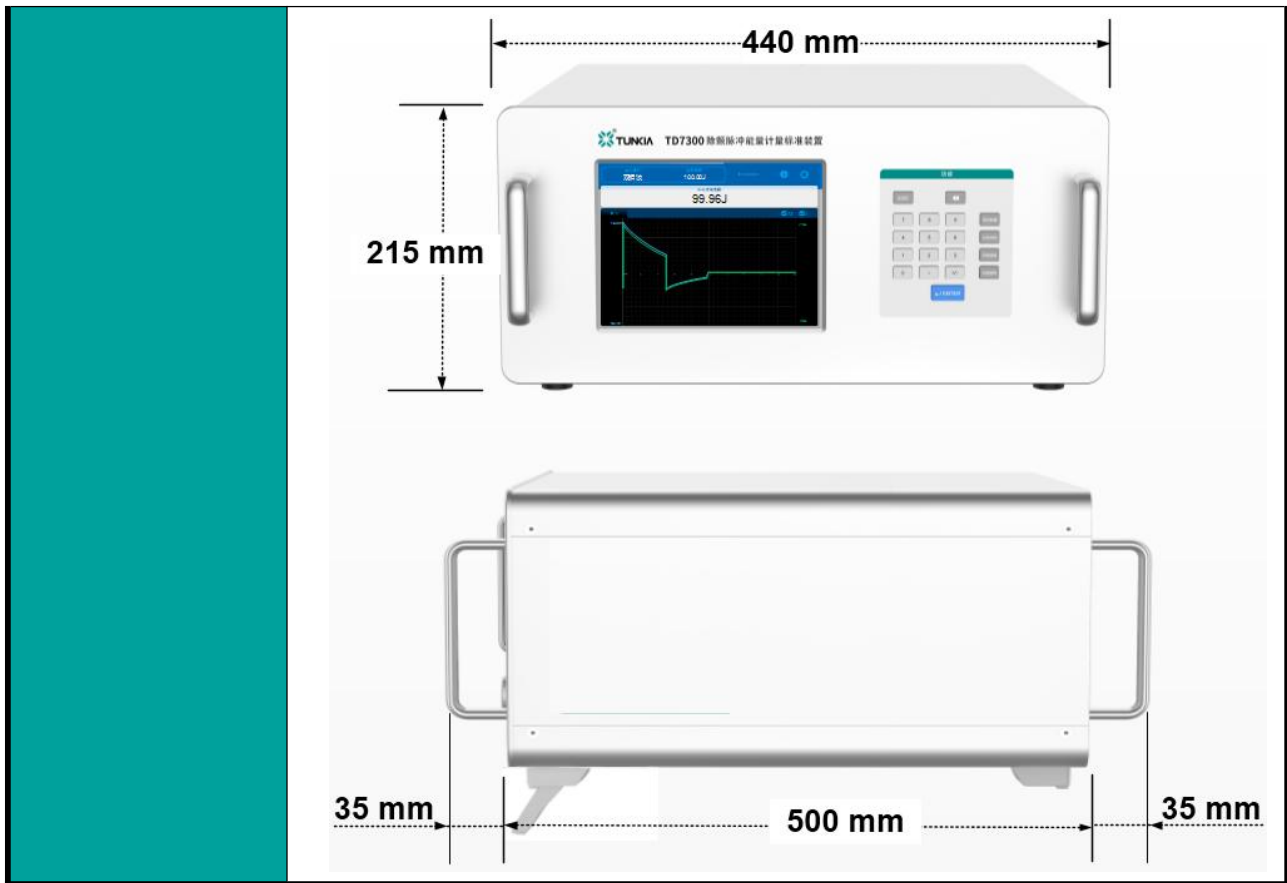
- **Directly Preset Energy:** Energy value output can be directly preset through the value output interface.

6. Specifications





Standard Energy Output	1 J~400 J
Maximum Voltage Output	3700 V
Accuracy	±0.3%*reading
Discharge Mode	Monophasic Wave (MDS, MTE), Biphasic Wave (BTE)
Discharge Pulse Duration	10 ms~16 ms
Charging Time	400J Energy Charging Time ≤ 15s

7. General Specifications

Power Supply	AC (220 ± 22) V, (50 ± 2) Hz
Warm-up Time	30 minutes
Maximum Power Consumption	2500 VA
Temperature Performance	Working temperature: 0°C~45°C; Storage temperature: -20°C~70°C
Humidity Performance	Working humidity: < 80% @ 30°C, < 70% @ 40°C, < 40% @ 50°C Storage humidity: (20%~80%) R·H, non-condensing
Interface	RS232
Altitude	< 3000 m
Weight	About 20 kg
Dimensions	450 mm (W) × 670 mm (D) × 295 mm (H) (Excluding handles and feet)



8. Accessories List

S/N	Picture	Name	Specification	Quantity	Note
1		High Voltage Test Leads	0.5m / 1mm ² / Φ4 gun plug-Φ4 ET-G21 cross high voltage plug	4	Standard configuration
2		Power Cable	AC 220V、10A	1	Standard configuration
3		Glass Fuse	F12A-250V	3	Standard configuration
4		Storage Box	Aluminum alloy	1	Standard configuration