

Electric Vehicle HV Electrical Performance Comprehensive Tester

EVTS 150C24



- ISO 21498-2
- LV 123
- VW 80300
- MBN 11123

Features

- > Voltage slope control $> 250 \text{ V/ms}$;
- > Bidirectional power supply can operate as either a power source or an electronic load;
- > Max. output voltage DC 1,500 V;
- > Max. output current 240 A (higher customizable current);
- > Max. output power 120 kW (higher customizable power);
- > Integrated compact design, stable and easy to operate;
- > RJ45 Ethernet for remote control and waveform editing;
- > Meets ISO 21498-2, VW 80300 standards;
- > Simulate real complex EV high-voltage electrical conditions;

Introduction

EVTS 150C24 Electric Vehicle HV Electrical Performance Comprehensive Tester complies with ISO 21498-2, LV 123, VW 80300 and MBN 11123 standards. It is applicable to tests on DC voltage class B electrical circuits and components of electric vehicles, as well as tests for HV functional components. Besides, it can meet the HV component test requirements of other vehicle manufacturers including Mercedes-Benz and BMW.

The EVTS 150C24 is a bidirectional power supply that can operate as either a power source or an electronic load. It delivers a Max. output of DC 1,500 V / 240 A with a peak power of 120 kW. The whole test system, centrally controlled by AutoLab software (this product requires the software for operation), can improve system scalability and test efficiency. Test results support one-click saving, printing and internal enterprise sharing.

Application Areas



Technical Parameters

DC Voltage	0 ~ 1,500 V
Max. Current	240 A
Max. Power	120 kW
Power Module	4 unit (30 kW / 60 A)
Overvoltage Protection Range	0 ~ 1,650 V
Overcurrent Protection Range	0 ~ 264 A
Overpower Protection Range	0 ~ 132 kW
Waveform	Sine wave, Triangle wave, Voltage Slope wave
Changes In Amplitude and Position	Static, Linear
Max. Number of Supported Segments	100
Input/Output Terminals	100 A (solid terminal), 300 A (HV Shielded Terminal)
Expansion	Supports custom current and power expansion; power modules operate in parallel under 1-master N-slave mode.

General Parameters

Working Power	AC 380 V, 50 Hz/60 Hz
Grounding Method	Flat grounding wire
Dimensions	600 (W) * 1,850 (H) * 800 (D) mm
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa
Weight (incl. Supply)	Approx. 305 kg

Standard Accessories

User Manual, Test Cables, Power Cord, Flat Grounding Wire

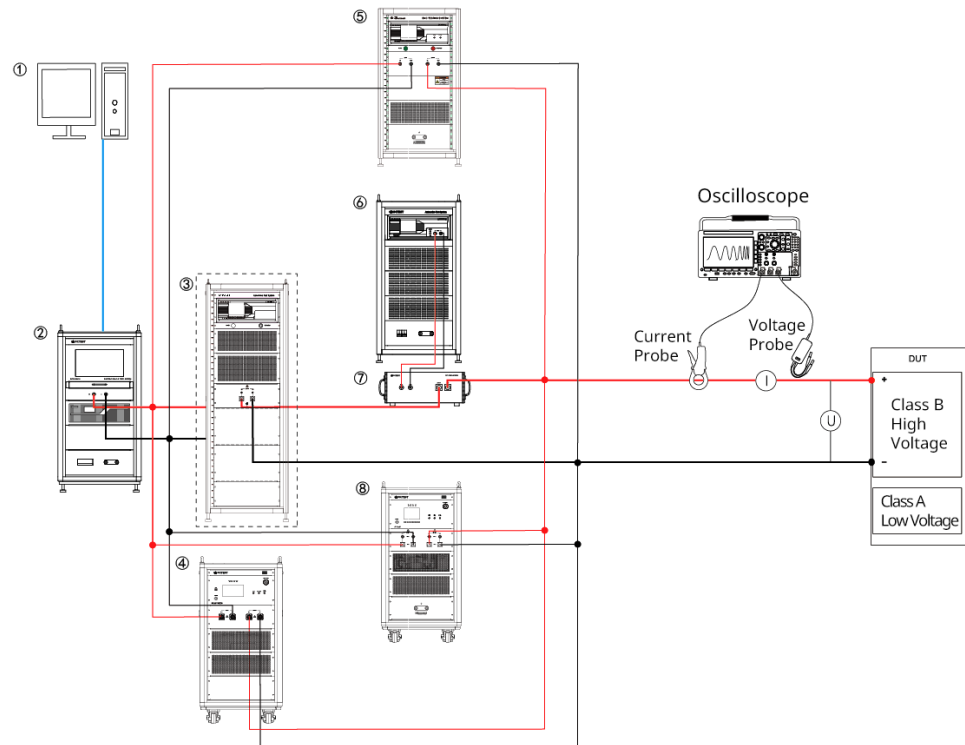
Optional Accessories

1	Automotive Immunity Test Software	Model: AutoLab > Compatible with Windows 7/8/10/11 > Easy to operate with a clean, intuitive UI. > Built-in standard test library supports quick custom test programming, meeting ISO 21498-2 and VW 80300 test standards.	
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Optional Accessories

2	HV Artificial Network	Model: AN Series Standards: ISO 21498, VW 80300 Input voltage: 0 ~ 1,500 V DC DC current capacity: Max. 800 A (higher current available on request)	
	HV Test Device	Model: HTS Series Standards: VW 80300 Input voltage: 0 ~ 1,500 V DC DC current capacity: 0 mΩ / 50 mΩ 300 A, 100 mΩ 200 A, 200 mΩ 100 A	
3	HV DC Short-circuit Simulator	Model: HDSS Series Standard: ISO 21498 Clause 6.12 Input voltage: 0 ~ 1,500 V DC Sustained short-circuit current: 500 A (higher current available on request)	
4	Wide-Range Adjustable Pre-charge Circuit Test Device	Model: RC Series Standard: VW 80300 EHV-04 Input voltage: 0 ~ 1,500 V DC Capacitance: 10 μF ~ 1,200 μF DC current capacity: Max. 300 A (higher current available on request)	
5	Ripple Signal Generator	Model: RSG Series Standards: ISO 21498, VW 80300 Max. open-circuit output voltage: 160 V _{pp} Max. output current: 200 A _{pp} Frequency: 10 Hz ~ 300 kHz	
6	Coupling Transformer	Model: TPT Series Standards: ISO 21498, VW 80300 Max. coupling voltage: 160 V _{pp} Max. coupling current: 400 A _{pp} DC current capacity: Max. 1,000 A (higher current available on request)	
7	EV Load Dump Simulator	Model: EVDG 20 Standard: VW 80300 EHV-10 Pulse voltage amplitude: 20 V ~ 200 V DC current capacity: Max. 100 A (higher current available on request)	
	EV Pulse Interference Generator	Model: EVPG 20 Standard: VW 80300 EHV-16 Pulse Voltage amplitude: 20 V ~ 200 V DC current capacity: Max. 100 A (higher current available on request)	
	EV Pulse Interference Simulator	Model: EVPS Series Standards: VW 80300 EHV-10 & EHV-16 Pulse voltage amplitude: 20 V ~ 200 V DC current capacity: Max. 300 A (higher current available on request)	

System Setup



- ① PC supporting test software: AutoLab
- ② EV HV Electrical Performance Comprehensive Tester: EVTS Series
- ③ HV Artificial Network: AN Series / HV Test Set: HTS Series
- ④ HV DC Short-Circuit Simulator: HDSS Series
- ⑤ Wide-Range Adjustable Pre-Charge Circuit Test Set: RC Series
- ⑥ Ripple Signal Generator: RSG Series
- ⑦ Coupling Transformer: TPT Series
- ⑧ EV Load Dump Simulator: EVDG 20 / Electric Vehicle Pulse Interference Generator: EVPG 20 / EV Pulse Interference Simulator: EVPS Series

SUZHOU 3CTEST ELECTRONIC CO., LTD.

Address: No. 99 E'meishan Road, SND, Suzhou, Jiangsu Province, China

E-mail: globalsales@3ctest.cn

Service: service@3ctest.cn

Tel: +86 - 512 - 68077192

Web: www.3ctest.com



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