

Pulse Group Generator

LEG-433C 【Introduction】

The LEG-433C series of pulse group generators represents the new generation or combined group pulse test equipment, featuring a built-in three-phase AC (compatible with DC) coupling/decoupling network. It is a standard test instrument for assessing the ability of electronic and electrical equipment to withstand EFT pulse group interference in EMC testing.

Compliance Standards

IEC 61000-4-4 IEC 61000-4-4 Ed.3/Ed.2 EN 61000-4-4 GB/T 17626.4

Application Fields

Industrial Equipment, Electrical Instrumentation, Automotive Electronics, Medical Devices, Lighting Fixtures, Communication Transmission, Audio and Video Equipment, Low-Voltage Electrical Appliances, Electronic Components, Electric Tools, Information Technology Equipment, Railway and Aerospace Electrical Appliances, Instrumentation and Meters.

Technical Features

- ◆ Universal power supply range design to accommodate use in different countries and regions ;
- ◆ The instrument is equipped with overvoltage protection, over-temperature protection, and audible/visual alerts for the high-voltage power supply ;
- ◆ Comprehensive communication interface design with standard RS485 serial port, LAN port, USB port, and wireless WiFi ;
- ◆ Emergency stop switch: Quickly cuts off the internal high-voltage power supply or EUT power supply circuit in emergency situations ;
- ◆ Security lock: Normal operation of the device is allowed with the security lock inserted; the device locks when the security lock is removed ;
- ◆ External synchronization: Used to connect an external manual coupling / decoupling network to achieve EUT power phase synchronization ;
- ◆ Manual/automatic trigger: Manually control the pulse output of the instrument via virtual buttons on the touchscreen, outputting a series of pulses each time a button is pressed; automatic triggering is controlled by a preset program ;

- ◆ External trigger: Enables or disables pulse output by connecting an external trigger switch (normally open) ;
- ◆ EUT_FAIL detection, providing three monitoring inputs.

Parameter List

Specification Model	LEG-433C-05AC&DC	LEG-433C-06AC&DC	LEG-433C-07AC&DC
Overall Parameters			
Power Supply	AC 85 V ~ 264 V 50/60 Hz 120 W Fuse Rating : 2 A/250 V		
Dimensions	450 mm×545 mm×195 mm		
Signal Source			
Pulse Voltage Range	100 Vp ~ 5100 Vp±10 %	100 Vp ~ 6100 Vp±10 %	100 Vp ~ 7100 Vp±10 %
Pulse Rise Time	50 Ω&1 kΩ load : Rise time 3.5 ns ~ 6.5 ns		
Pulse Duration	50 Ω load : 35 ns ~ 65 ns 1 kΩ load : 35 ns ~ 150 ns		
Output Impedance	50 Ω/Coaxial Output		
Polarity	Positive, Negative, Automatically Alternating Positive and Negative		
Repetition Frequency	0.1 ~ 1000 kHz		
Number of Pulses per Group	1 ~ 1000 ↑		
Group Period	10 ~ 9999 ms		
Built-in Coupling/Decoupling Network			
Channel	Three-phase Five-wire System		
Host Computer Interface	LAN/WiFi		
Capacity of the Test Specimen	AC 690 V&32 A MAX/DC 1000 V&32 A MAX		
Pulse Rise Time	50 Ω load: Rise time 4 ns ~ 7 ns		
Pulse Duration	50 Ω load: 30 ns ~ 60 ns		