



Load Dump Pulse Simulator

LDS 200Nxx Series

- ISO 7637
- ISO 16750
- Ford EMC-CS
- Ford FMC1278

Features

- > 5.7-inch color touch screen front panel operation
- > Equipped with DUT current detection and overcurrent protection function
- > Support communication with devices from other companies.
- > Can generate clamped load dump pulses
- > Built-in adjustable source impedance
- > Max. pulse duration: 1,200 ms
- > Equipped with built-in couplers: 60 V/30 A, 50 A, 100 A, 200 A
- > Ethernet RJ45 interface for remote PC control and test report printing

Introduction

The generated load dump pulses comply with ISO 7637-2, ISO 16750-2, as well as equivalent or similar specifications from major automotive manufacturers.

The LDS 200Nxx Series Load Dump Simulators replicate high-energy destructive load dump pulses generated when the battery is suddenly disconnected from the alternator while the alternator is charging the battery.

Application Areas



Technical Parameters

Complies with ISO 16750-2 Test A/B and ISO 7637-2 Pulse 5a/5b	
Pulse Amplitude (Vp)	30 ~ 210 V
Clamp Voltage	15 ~ 100 V
Impedance (Ri)	0.5 ~ 40 Ω , adjustable in 0.1 Ω steps
Pulse Rise Time	5 ~ 10 ms (1–10 ms adjustable in free mode, resolution: 1 ms)
Pulse Duration	40 ~ 400 ms, adjustable in 1 ms steps
Pulse Repetition Time	15 ~ 600 s
Pulse Output Mode	Single, continuous, programmable: 1 ~ 9,999 cycles
Output	Compatible with TIS 700 transient pulse simulator
Coupling	Coupled to battery positive terminal
Decoupling	Built-in diode
EUT Max. Voltage	60 V
EUT Max. Current	30 A, 50 A, 100 A, 200 A
CRO	5 V TTL trigger signal for oscilloscope
Serial Interface	Ethernet LAN (RJ45)

General Parameters

Working Power	AC 110 V/ 220 V, $\pm 10\%$, 45 ~ 65 Hz
Dimension	6U rack, 450 mm * 600 mm * 266 mm
Weight	Approx. 33 kg
Ambient Temperature	15°C ~ 35°C

Standard Accessories

Main Unit, User Manual, Test Cable, Fuse

Optional Accessories

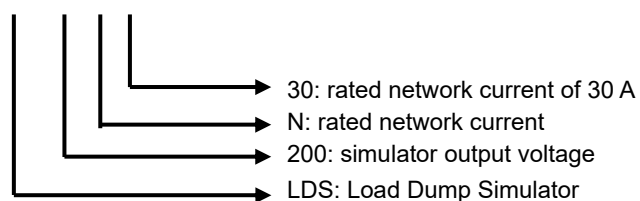
1	PC Control Software	Model: Autolab > Support Windows 7/8/10 /11; > Support Ethernet Interface; > Support sequence test, easy to operate, generate and export test report.	
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Selection Guide

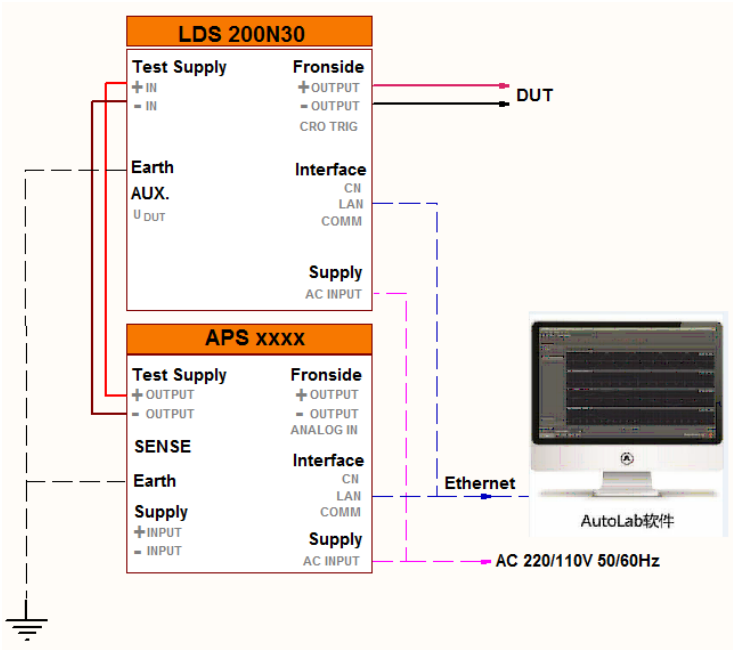
LDS 200N30	Max. supply voltage for EUT: 60 V, 30 A
LDS 200N50	Max. supply voltage for EUT: 60 V, 50 A
LDS 200N75	Max. supply voltage for EUT: 60 V, 75 A
LDS 200N100	Max. supply voltage for EUT: 60 V, 100 A
LDS 200N200	Max. supply voltage for EUT: 60 V, 200 A

Naming Rules

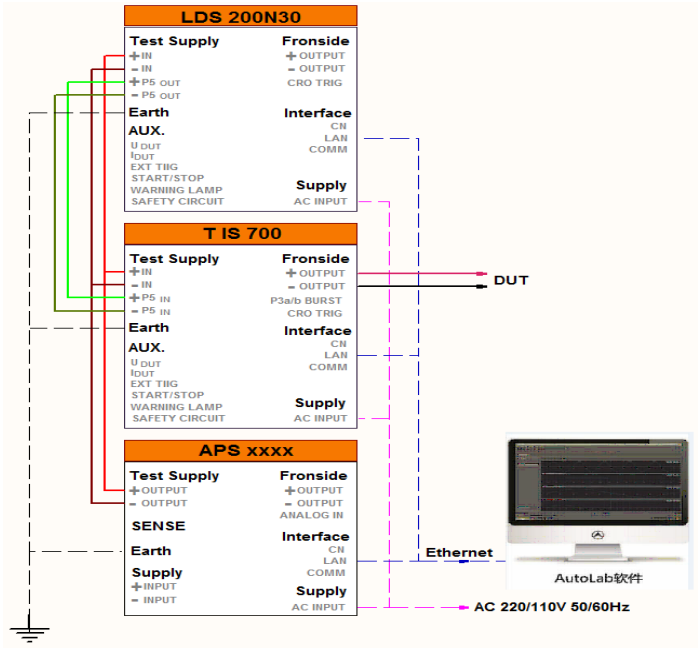
LDS 200N30



Test Connection
Diagram 1



Test Connection
Diagram 2



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