

Load Dump Pulse Simulator

LDS 200Nxx Series

Datasheet



In Compliance with

- > ISO 7637
- > ISO 16750
- > Ford EMC-CS-2009.1
- > Ford FMC1278

Introduction

LDS 200Nxx series simulate load dump transient occurring in the event of a discharged battery being disconnected (e.g. the abrupt disconnection owing to corrosion) while the alternator is generating charging current with other loads remaining on the alternator circuit at this moment, which can be destructive. The simulators can generate both transients without and with centralized load dump suppression (via built-in amplitude clamping circuit), with the continuous time of hundreds of milliseconds or longer, in compliance with ISO 7637-2, ISO 16750-2 and many other automotive manufacturers like Ford, Kreisler etc.

Features

- > 5.7" color touch screen
- > Capable of generating transients with centralized load dump suppression
- > Built-in adjustable impedance source
- > Pulse continuous time up to 1,200 ms (internal resistance > 2 Ω)
- > In compliance with test requirements of many manufacturers
- > Built-in 60 V / 30 A or 50 A, 100 A, 200 A coupling device
- > Detection of DUT current and over-current protection
- > Ethernet RJ 45 interface for PC control, printing test reports

Application Areas

- > Automobiles

| Technical Parameters | |
|--|--|
| As per ISO16750-2 TEST A/B, ISO 7637-2 P5a/P5b | |
| Pulse Amplitude | 30-210 V |
| Clamping Voltage | 15-100 V |
| Impedance (Ri) | 0.5-40 Ω, 0.1 Ω, adjustable; |
| Rise Time | 5-10 ms (under the free mode, 1-10 ms adjustable, resolution: 1 ms) |
| Duration Time | 40-400 ms, 1 ms, adjustable |
| Repetition | 15-600 s (1 s adjustable) depending on the pulse energy |
| Output Mode | Single, continuous or as programmed, 1-9999 |
| Output Connection | Can be connected to TIS 700 transient simulator |
| Coupling | To the positive pole of battery |
| Decoupling | Built-in diode |
| DUT Supply | Max 60 V; |
| DUT Supply Current | Max 30 A, 50 A, 100 A, 200 A; |
| CRO | 5 V TTL signal |
| Interface | LAN Ethernet RJ45 |

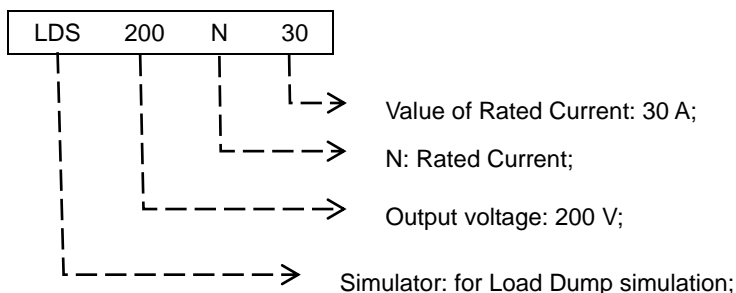
| Options of Generators | |
|-----------------------|----------------------|
| LDS 200N30 | DUT max 60 V / 30 A |
| LDS 200N50 | DUT max 60 V / 50 A |
| LDS 200N75 | DUT max 60 V / 75 A |
| LDS 200N100 | DUT max 60 V / 100 A |
| LDS 200N200 | DUT max 60 V / 200 A |

| General Parameters | |
|--------------------|---------------------------------|
| Power Supply | AC 110/220 V, ±10%, 45-65 Hz |
| Operating Temp. | 15 °C – 35 °C |
| Dimension | 450 × 600 × 266 mm (6U cabinet) |
| Weight | About 33 Kg |

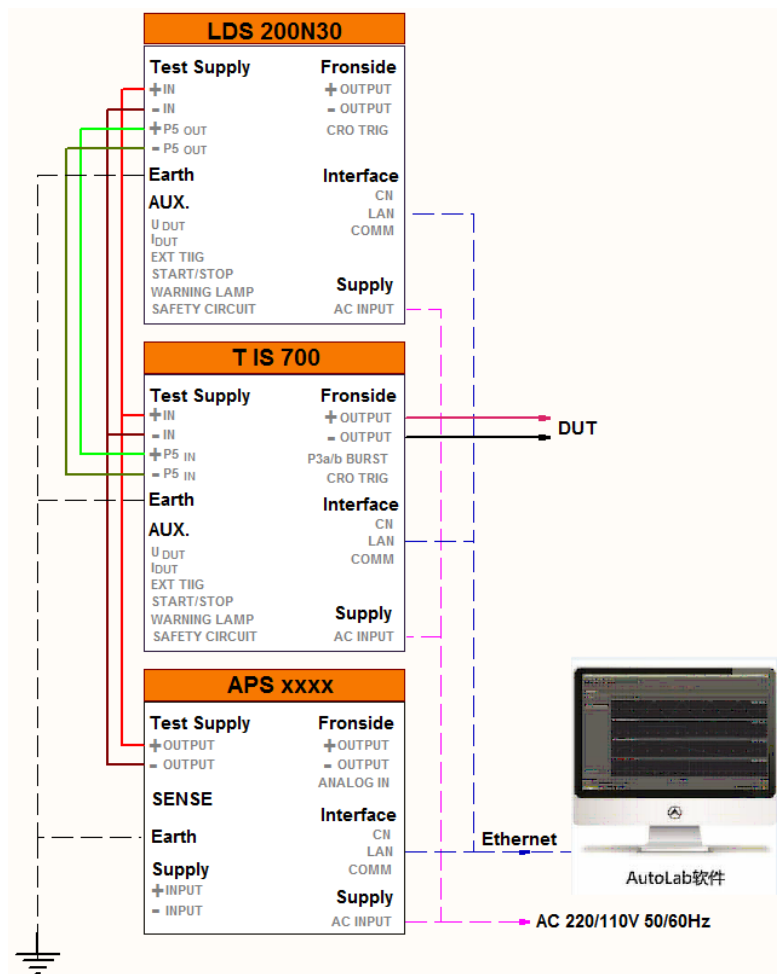
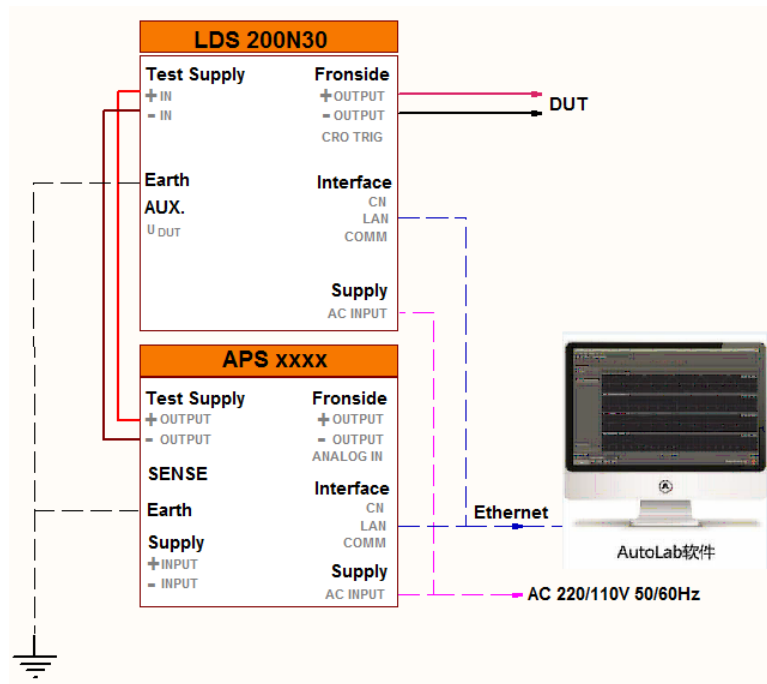
| Standard Accessories | |
|---------------------------|------|
| Testing Wire | 1 pc |
| Fuse | 1 pc |
| User Manual | 1 pc |
| Factory Inspection Report | 1 pc |

| Optional Accessories |
|---|
| 1. Software: AutoLab. In support of windows XP / 7 and above; Easy to operate; Equipped with rich standards library, easy to set up and customize test schedules; Automatic / manual detection of equipment connected and automatic configuration; Easy to generate test reports with formats available. |

Naming Rule



Equipment Connection Diagram





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3ctest is always striving for product innovation and quality improvement.

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