

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, Kreiser 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

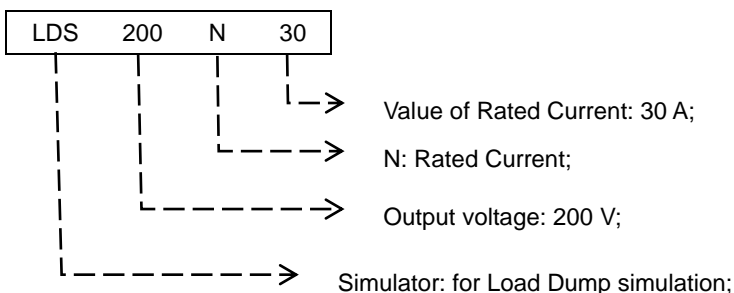
Options of Generators	
LDS 200N30	DUT max 60 V / 30 A
LDS 200N50	DUT max 60 V / 50 A
LDS 200N75	DUT max 60 V / 75 A
LDS 200N100	DUT max 60 V / 100 A
LDS 200N200	DUT max 60 V / 200 A

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

