



Power Network Simulator

PNS 80C100

- ISO 21780
- GB/T 45120

Features

- > 5.7-inch color TFT touchscreen front panel operation
- > Ethernet RJ45 interfaces for PC remote control
- > Max. test voltage 80 V (can be customized)
- > Max. test current 100 A (can be customized)
- > Support voltage and current monitoring
- > Support overvoltage and overcurrent protection
- > Support external resistor and capacitor to meet more test requirement

Introduction

The PNS 80C100 Power Network Simulator is designed for Test-04: supply component load dump control test and Test-07 overvoltage with consumer components which may supply electrical energy specified in ISO 21780. This RC network can be used for simulating harness impedance and grid parasitic capacitance in 48 V vehicles.

The PNS 80C100 can be controlled by remote control software AutoLab, which enables users to carry out complete automated testing procedures conveniently.

Application Areas



Technical Parameters

Max. test voltage	80 V
Max. test current	100 A
Capacitance	100 uF ~ 1,100 uF (step 100 uF)
Internal Resistance	2 Ω ~ 62 Ω (step 2 Ω)
Switch-off Time of E-switch	$\leq 100 \mu s$
Input/ Output Terminal	High-voltage connector (DC ≤ 100 A)
External RC Terminal	4 mm banana socket
Safety Circuit	Power input is cut off once the emergency button is activated.

General Parameters

Display Screen	5.7-inch TFT touch screen
Working Power	AC 220 V, $\pm 10\%$, 50 Hz /60 Hz
Fuse	6 A
Max. Power Consumption	200 W
Communication Interface	Ethernet LAN (RJ45)
Working Status Indication	Front panel LED indication
Grounding Method	Flat grounding wire
Dimension	6 U rack, 450 mm(W)*280 mm(H)*620 mm(D)
Weight	Approx. 40 kg
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

Test Cable, User Manual, Grounding Wire, Power Cord, Fuse

Optional Accessories

1	Remote Control Software	Model: AutoLab > Support Windows 7/8/10 /11 operating systems > Supports Ethernet > Supports scheduling and test sequence, easy for operation > Supports single test and sequence test reports printing, and user-defined templates > Supports emergency stop for safe test	
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