NI xx – 2500

Input voltage: 24, 48, 60, 110, 220 VDC

Output voltage: 230 V, 50 Hz, sinus wave

Output power: 2.500 VA / W

MAIN CHARACTERISTICS

- **High fidelity**
- **Robust design**
- **High efficiency**
- **Fan cooling**

APPLICATION

This device is designed for use in industrial modular uninterruptible power supply systems with alternating voltages of 230 V which are required to function as high efficiency systems. It is designed for long-term function and service life without special need for maintenance.
It is possible to connect such devices in parallel to increase the total power. It is possible to add automatic and manual ByPass switches to exchangers.

DESCRIPTION

This device converts DC voltage into AC voltage with a sine wave form.The device consists of two segments. The input segment is a DC/DC converter that converts the available input DC voltage into an output DC voltage of 410 V and galvanically separates the input from the output. The output segment is an inverter that converts the 410 VDC voltage into 230 V, 50 Hz voltage of a regular sinusoidal voltage.

A communication microprocessor set is built in, which enables communication with the microprocessor unit of the uninterruptible power supply system, but also with the automatic byPass switch. A precisely selected and defined topology, precisely selected and dimensioned components, a wide range of functional temperatures and a robust design guarantee a very high efficiency of these devices.

DEVICE TYPES

Type	NI 24 – 1.500	NI 48 – 2.500	NI 60 – 2.500	NI 110 – 2.500	NI 220 – 2.500
Input voltage, nominal	24 VDC	48 VDC	60 VDC	110 VDC	220 VDC
Output voltage	230 VAC	230 VAC	230 VAC	230 VAC	230 VAC
Output power	1500 VA-W	2500 VA-W	2500 VA-W	2500 VA-W	2500 VA-W

TECHNICAL DATA

Series:	NI xx – 2500
Output voltage:	230 VAC, pure sinus
Adjustment range Uout:	210 – 240 V
Treshold value Uout:	195 V / 245 V
Output frequency:	50 Hz
Output power:	2500 VA / W (1500 VA / W at 24 V input)
Overload capability:	135 % for 10 sek
Shotr circuit:	3 x In @2 sec
Input voltage:	24 VDC, 48 VDC, 60 VDC, 110 VDC, 220 VDC
Input voltage range:	- 15 % to +20 %
Efficiency:	≥94% @ P =50%
Crest factor:	≤ 3
THD:	≤ 2 % @ linear load
LED signalling:	Input voltage (operation), output voltage OK, fault
External synchrozation:	Static transfer switch
Internal cmmunication:	CAN bus
EN Standards:	EMC – 61000-6-4(2), 61000-3-2(3), 55011(22), 50080-1 LVD – 60145(A), 62368-1, 62311
RoHS:	Yes, 2011/65/EU
Cooling:	fan – temperature regulated
Mechanical:	Subrack with connector
Connector:	DIN 41612-M, input + output + signals
Construction:	plug-in module for 19“ system, 2 U (HE) x 21 TE
Dimensions (l/w/h):	335 mm x 106 mm x 88 mm
Casing type / protection:	IP 20
Front panel – colour:	Anodized aluminum, natural aluminum color
Weight:	3,9 kg
CE label:	Yes
Ambijental temperature:	(in function) - 20°C to + 55°C, (in storage) - 40°C to + 85°C
Max. inbuilt height:	2.000 m

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