NX series

Static inverter modules converts DC battery power to sinusoidal 230V AC power, to support your critical equipment in telecom and industrial systems. Because of their modular and robust structure, they offer a continuous and reliable power conversion.

EPI static inverter series are designed in a wide range of power and input / output voltage options. With its high inrush capacity, it is a very proper solution especially for industrial equipments. Semiconductor devices with latest technology used in EPI static inverter series provide high efficiency in power conversion.

Static inverter series takes all the advantage of microprocessor control. Thanks to the microprocessor, smart control and diagnostics are possible. For example, after detecting a short circuit at the output, static inverter protects itself, but it will retry to feed your load, after a specified time. Many of the operational parameters are programmable by the LCD display and keypad. Moreover, static inverter series offer optional communication interfaces, for site monitoring and remote control.

FEATURES

Key Features

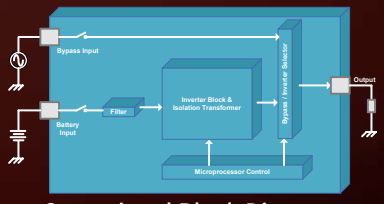
- Compact structure, rack mount
- Full sinusoidal output
- Microprocessor control
- Very high output surge capacity
- Input / Output isolation via output isolation transformer
- Bypass switch ‹optional›
- Programmable online / offline operation
- Easy control & monitoring via 2x16 character LCD display, status LEDs & keypad
- RFI Filter at battery input

Protections

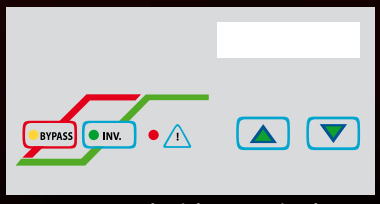
- AC & DC input fuses & circuit breakers
- Overload shutdown
- Output overvoltage & under voltage disconnect
- Battery low voltage disconnect
- Battery high voltage disconnect
- Short circuit protection with automatic self retry
- Over temperature shutdown

Applications

- Portable equipments
- Telecom systems
- Industrial systems
- Air conditioners
- Compressors



Operational Block Diagram



Front Panel with LCD Display

Money Isn't All You're Saving

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Technical Specification:

24VDC INPUT	NX2415	NX2425	NX2430
RATINGS (VA)	1500	2500	3000
DC Input Voltage	20 - 40 VDC	20 - 40 VDC	20 - 40 VDC
DC Input Current (maximum)	75 A	121 A	145 A
Output Voltage (adjustable ±5%)	230 VAC	230 VAC	230 VAC
Output Current	6.5 AAC	10.8 AAC	13.0 AAC
Output Frequency (selectable)	50/60 Hz	50/60 Hz	50/60 Hz
Crest Factor	2.5:1	2:1	2:1
Source Capacity for 5 seconds	9 A	12 A	12 A
Power Factor	0.75 (1125W)	0.75 (1875W)	0.75 (2250W)
Voltage THD (@linear load)	‹ 3%	‹ 3%	‹ 3%
Efficiency (optimum)	› 84%	› 85%	› 85%
48VDC INPUT	**NX4820**	**NX4830**	**NX4850**
RATINGS (VA)	2000	3000	5000
DC Input Voltage	40 - 80 VDC	40 - 80 VDC	40 - 80 VDC
DC Input Current (maximum)	48 A	71 A	120 A
Output Voltage (adjustable ±5%)	230 VAC	230 VAC	230 VAC
Output Current	8.7 AAC	13.0 AAC	21.7 AAC
Output Frequency (selectable)	50/60 Hz	50/60 Hz	50/60 Hz
Crest Factor	3:1	2:1	2:1
Source Capacity for 5 seconds	16 A	24 A	25 A
Power Factor	0.75 (1500W)	0.75 (2250W)	0.75 (3750W)
Voltage THD (@linear load)	‹ 3%	‹ 3%	‹ 3%
Efficiency (optimum)	› 86%	› 86%	› 86%

110VDC INPUT	NX11030	NX11040	NX11050	NX110100
RATINGS (VA)	3000	4000	5000	10000
DC Input Voltage	90 - 140 VDC	90 - 140 VDC	90 - 140 VDC	90 - 140 VDC
DC Input Current (maximum)	29 A	41 A	50 A	97 A
Output Voltage (adjustable ±5%)	230 VAC	230 VAC	230 VAC	230 VAC
Output Current	13.0 AAC	17.4 AAC	21.7 AAC	43.5 AAC
Output Frequency (selectable)	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Crest Factor	3:1	3:1	3:1	3:1
Source Capacity for 5 seconds	39 A	39 A	39 A	63 A
Power Factor	0.75 (2250W)	0.75 (3000W)	0.75 (3750W)	0.75 (7500W)
Voltage THD (@linear load)	‹ 3%	‹ 3%	‹ 3%	‹ 3%
Efficiency (optimum)	› 90%	› 90%	› 91%	› 92%

GENERAL & ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature	0°C – 60°C
Storage Temperature	-20°C – 70°C
Relative Humudity	0–90% non-condensing
Cooling Method	Fan forced
Protection Degree	IP20
Display & Indicators	2 x 16 character LCD Display
	Output OK & Input OK & Common Alarm Leds
Alarm & Protections	Output & Input Fuse
	DC Undervoltage & Overvoltage
	Overload
	Short Circuit & IPM Fault
	Over Temperature