

# INFORM Inverter Modules



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"Uninterruptible Energy"

Static inverter modules convert 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.

Inform 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 Inverta static inverter series provides a 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

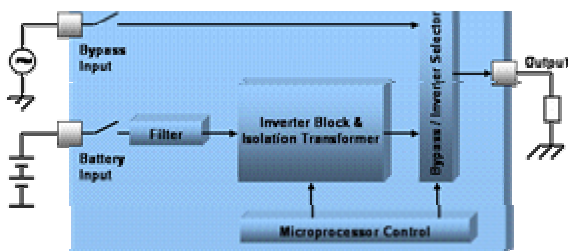
- Compact structure, rack mount
- Full sinusoidal output
- Microprocessor control
- Very high output surge capacity
- Input / Output isolation via output isolation transformer
- Bypass switch<optional>
- Programmable online / offline operation
- Easy control & monitoring via 2x16 character LCD display,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

## ❑ Protections

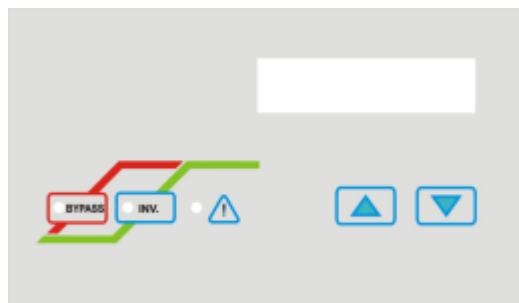
- AC & DC input fuses & circuit breakers
- Overload shutdown
- Output overvoltage & undervoltage disconnect
- Battery low voltage disconnect
- Battery high voltage disconnect
- Short circuit protection with automatic self retry
- Over temperature shutdown

## ❑ Applications

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



Operational Block Diagram



Front Panel with LCD Display

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# Specifications

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		24-230-1500	24-230-2500	24-230-3000	
24VDC Input Electrical Specifications	D.C Input Voltage	20 - 40 VDC	20 - 40 VDC	20 - 40 VDC	
	D.C Input Current (maximum)	75 A	121 A	145 A	
	Output Voltage (adjustable $\pm 5\%$ )	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	
	Surge Capacity for 5 seconds	9 A	12 A	12 A	
	Power Factor	0.75 (1125 W)	0.75 (1875 W)	0.75 (2250 W)	
	Voltage THD (@linear load)	< 3%	< 3%	< 3%	
Efficiency (optimum)	> 84 %	> 85 %	> 85 %		
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		48-230-2000	48-230-3000	48-230-5000	
48VDC Input Electrical Specifications	D.C Input Voltage	40 - 80 VDC	40 - 80 VDC	40 - 80 VDC	
	D.C Input Current (maximum)	48 A	71 A	120 A	
	Output Voltage (adjustable $\pm 5\%$ )	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	
	Surge Capacity for 5 seconds	16 A	24 A	25 A	
	Power Factor	0.75 (1500 W)	0.75 (2250 W)	0.75 (3750 W)	
	Voltage THD (@linear load)	< 3%	< 3%	< 3%	
Efficiency (optimum)	> 86 %	> 86 %	> 86 %		
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		110-230-2000	110-230-3000	110-230-4000	110-230-5000
110VDC Input Electrical Specifications	D.C Input Voltage	90 - 140 VDC	90 - 140 VDC	90 - 140 VDC	90 - 140 VDC
	D.C Input Current (maximum)	21 A	29 A	41 A	50 A
	Output Voltage (adjustable $\pm 5\%$ )	230 VAC	230 VAC	230 VAC	230 VAC
	Output Current	8.7 AAC	13.0 AAC	17.4 AAC	21.7 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
	Surge Capacity for 5 seconds	39 A	39 A	39 A	39 A
	Power Factor	0.75 (1500 W)	0.75 (2250 W)	0.75 (3000 W)	0.75 (3750 W)
	Voltage THD (@linear load)	< 3%	< 3%	< 3%	< 3%
Efficiency (optimum)	> 89 %	> 90 %	> 90 %	> 91 %	
General & Environmental Specifications	Operation Temperature	0 °C - 60 °C			
	Storage Temperature	-20 °C - 70 °C			
	Relative Humidity	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			
	Alarms & Protections	Output & Input Fuse			
		DC Undervoltage & Overvoltage			
		Overload			
		Short Circuit & IPM Fault			
		Over Temperature			

