



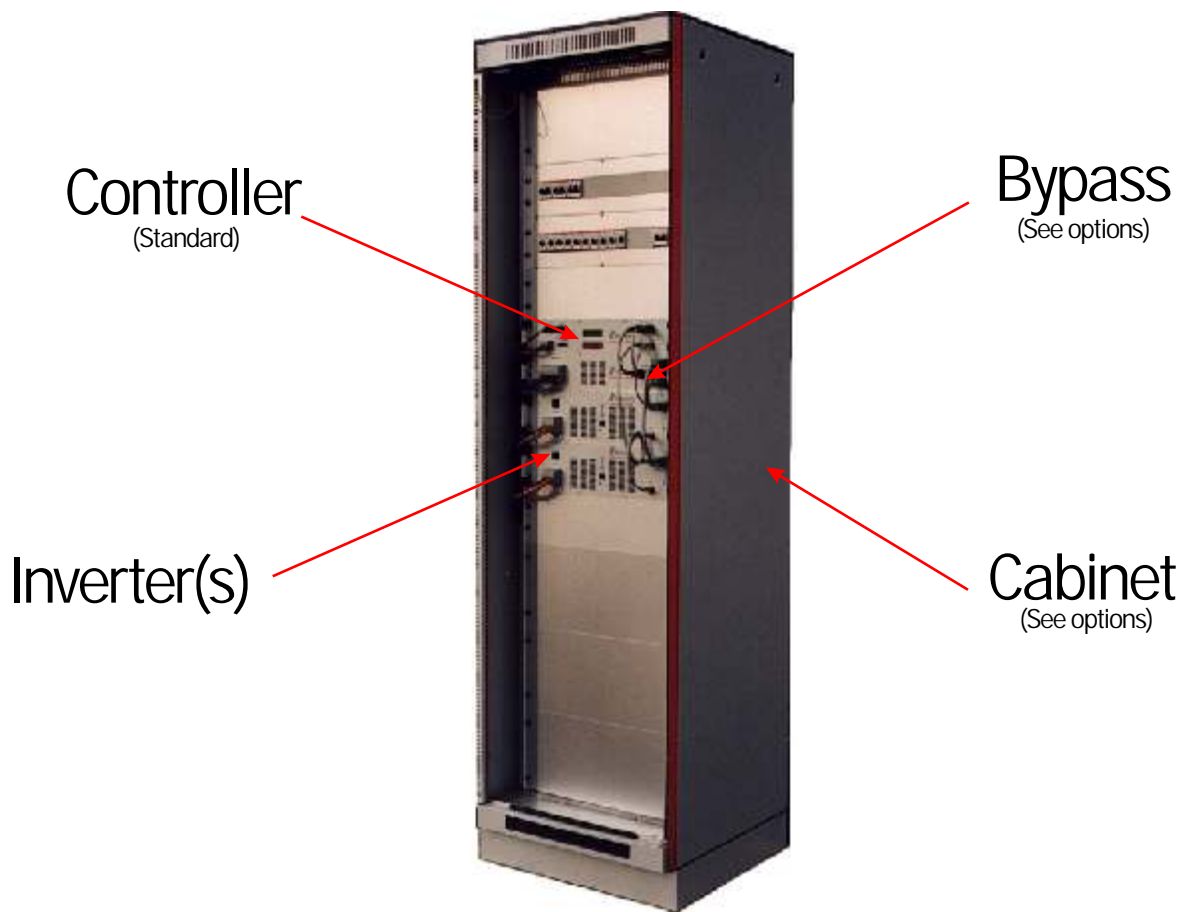
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# INV-LAVA SYS-24

# System Inverter

## System Description

This series of Inverters are designed to be part of a system incorporating both a controller and automatic bypass. This arrangement provides a very flexible system that can be easily expanded or reconfigured as power needs dictate. Up to 12 inverters can be connected via CAT5 cables to the controller to provide up to 24kVA of output power. Two different bypasses are available capable of either 120A or 200A. Separate summaries are available for these units. The inverters themselves produce a true micro-processor controlled sinewave. LED indication on the front panel shows the power taken from each inverter. To identify a particular inverter within the system the address is displayed digitally on the front panel of each inverter. The system allows for true n+1 redundancy. Should an inverter fail redundancy can be regained by installing a new unit in to the system while it is still operational. These robust inverters have excellent efficiencies typically over 88% at nominal load. A high peak capability and wide operating temperature range makes them ideal for many applications.





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# INV-LAVA SYS-24

# System Inverter

## Inverter(s) Selection Table

Part Number	Maximum Power	Number Of Modules	Input Voltage	Output Voltage*	Output Frequency*
INV-LAVA SYS-24-48-1	2kVA	1	48/60VDC	230VAC	50Hz
INV-LAVA SYS-24-48-2	4kVA	2	48/60VDC	230VAC	50Hz
INV-LAVA SYS-24-48-3	6kVA	3	48/60VDC	230VAC	50Hz
INV-LAVA SYS-24-48-4	8kVA	4	48/60VDC	230VAC	50Hz
INV-LAVA SYS-24-48-5	10kVA	5	48/60VDC	230VAC	50Hz
INV-LAVA SYS-24-48-6	12kVA	6	48/60VDC	230VAC	50Hz
INV-LAVA SYS-24-48-7	14kVA	7	48/60VDC	230VAC	50Hz
INV-LAVA SYS-24-48-8	16kVA	8	48/60VDC	230VAC	50Hz
INV-LAVA SYS-24-48-9	18kVA	9	48/60VDC	230VAC	50Hz
INV-LAVA SYS-24-48-10	20kVA	10	48/60VDC	230VAC	50Hz
INV-LAVA SYS-24-48-11	22kVA	11	48/60VDC	230VAC	50Hz
INV-LAVA SYS-24-48-12	24kVA	12	48/60VDC	230VAC	50Hz
INV-LAVA SYS-24-110-1	2kVA	1	110VDC	230VAC	50Hz
INV-LAVA SYS-24-110-2	4kVA	2	110VDC	230VAC	50Hz
INV-LAVA SYS-24-110-3	6kVA	3	110VDC	230VAC	50Hz
INV-LAVA SYS-24-110-4	8kVA	4	110VDC	230VAC	50Hz
INV-LAVA SYS-24-110-5	10kVA	5	110VDC	230VAC	50Hz
INV-LAVA SYS-24-110-6	12kVA	6	110VDC	230VAC	50Hz
INV-LAVA SYS-24-110-7	14kVA	7	110VDC	230VAC	50Hz
INV-LAVA SYS-24-110-8	16kVA	8	110VDC	230VAC	50Hz
INV-LAVA SYS-24-110-9	18kVA	9	110VDC	230VAC	50Hz
INV-LAVA SYS-24-110-10	20kVA	10	110VDC	230VAC	50Hz
INV-LAVA SYS-24-110-11	22kVA	11	110VDC	230VAC	50Hz
INV-LAVA SYS-24-110-12	24kVA	12	110VDC	230VAC	50Hz
INV-LAVA SYS-24-220-1	2kVA	1	220VDC	230VAC	50Hz
INV-LAVA SYS-24-220-2	4kVA	2	220VDC	230VAC	50Hz
INV-LAVA SYS-24-220-3	6kVA	3	220VDC	230VAC	50Hz
INV-LAVA SYS-24-220-4	8kVA	4	220VDC	230VAC	50Hz
INV-LAVA SYS-24-220-5	10kVA	5	220VDC	230VAC	50Hz
INV-LAVA SYS-24-220-6	12kVA	6	220VDC	230VAC	50Hz
INV-LAVA SYS-24-220-7	14kVA	7	220VDC	230VAC	50Hz
INV-LAVA SYS-24-220-8	16kVA	8	220VDC	230VAC	50Hz
INV-LAVA SYS-24-220-9	18kVA	9	220VDC	230VAC	50Hz
INV-LAVA SYS-24-220-10	20kVA	10	220VDC	230VAC	50Hz
INV-LAVA SYS-24-220-11	22kVA	11	220VDC	230VAC	50Hz
INV-LAVA SYS-24-220-12	24kVA	12	220VDC	230VAC	50Hz

\*Different output voltages and frequencies are possible. Please contact ET to discuss your requirements.



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## Technical Data

### General

Electrical Safety	EN 60950, VDE 0805
Efficiency	> 88% by nominal load
Galvanic Isolation	3.75 kVDC
EMC (Emission)	EN 50081-1, Curve EN 55022B
EMC (Immunity)	EN 50082-2
Operating Temperature	-5 to +45 °C (non condensing)

### Input DC

INV-LAVA 2000-48-60	48/60 (38 - 72)VDC
INV-LAVA 2000-110	110 (88 -132)VDC
INV-LAVA 2000-220	220 (176 - 264)VDC

### Output AC

Voltage	230VAC, failure tolerance $\pm 5\%$ (Option /1 for 115Vac, 60Hz)
Frequency	50Hz (Option /1 for 115Vac, 60Hz)
Output Power	2kVA/1600W
Power Factor	0.8
Load Range	0 - 100%
Crest factor	> 2.5
Harmonic Distortion	< 2%

### Housing

Casing	19" rack with mounting flanges
Size	19" x 3U x 360mm (W x H x D)
Weight	Approx. 12kg
Classification	IP 20
Ventilation	Internal Fan

### Electrical Connections

Connectors	Front
Input DC	3 high current terminal blocks 16mm <sup>2</sup>
Output AC (parallel mains)	Phoenix power combicon 3-pole
Output AC (parallel signal)	2 x RJ45 S-UTP

### Other

Visual	LEDs for load display and PG/ON, two digit seven segment display of address
Operation	Push button for address setting, battery switch
Warranty	2 Years

## System Options Table

Code	Description
/BYP-120.....	Electronic bypass with a rated current of 120A (Click here for datasheet)
/1.....	Output voltage of 115VAC
/CAB.....	System is placed in a cabinet