

48VDC INVERTER RM 2U

Pure Sine Wave AC Output Useful LCD Front Panel Small Size Design



"...power alliance..."

DESCRIPTION

AETES 48VDC Inverter RM 2U is a high technology equipment, including all protection and control systems, which is designed and manufactured to convert an 48V DC voltage to pure sinus and regulated AC voltage with a predefined frequency. It provides AC power, which is especially important for Industrial, Telecom and Energy applications.

This equipment contains internal line filters, it provides full electrical quality between DC / AC input supplies and AC output, and uses all advantages of Digital Signal Processor control. It provides also handy user interface and advanced communication features.

FEATURES

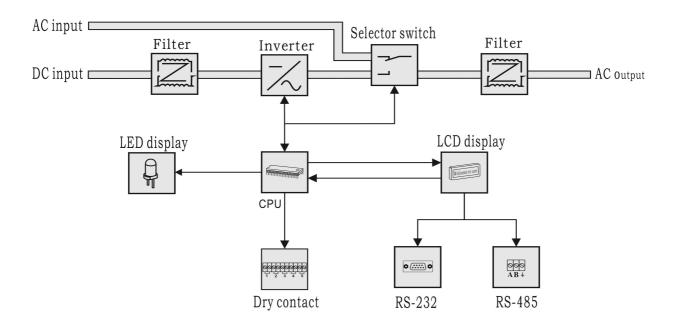
- Lightweight and Slim Structure Provided by the Latest Semiconductor Technology
- Useful LCD Display, Showing Measurements, Status and Alarm Message
- Low Output Voltage Harmonics
- Wide DC Input Voltage Range
- Excellent Short Circuit Protection
- Overload and Over Temperature Protections
- Precise Output Frequency Regulation
- High Efficiency thanks to CPU Controlled Design
- ModBus RS232, RS485 ports for Remote Monitoring Purposes
- Alarm Outputs with 5 Dry Contacts for Input and Output Faults
- Other Advanced Communication Options

GENERAL SPECIFICATION

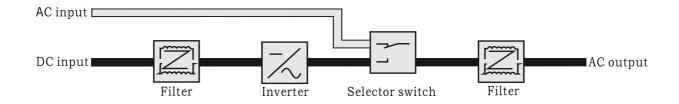
Model:	48-230 1000VA	48-230 2000VA	48-230 3000VA	48-230 5000VA
DC Input				
Voltage Range	Working 42V59V (Starting 46V57V DC)			
Rated Input Current	21A	42A	63A	104A
THDI	≤10%			
Efficiency	>85% (full linear load)			
AC Output				
Voltage	220V AC			
Capacity	800W	1600W	2400W	4000W
Max. Output Current	3,5A	7A	10A	18A
Line Regulation	±2%			
Frequency	50Hz or 60Hz ± 0.2Hz			
Wave Form	Pure Sine Wave			
THD Linear	≤3% 			
Load Regulation		≤5% (load	0% to 100%)
AC Bypass Input				
Voltage Range	176V265V AC			
Transfer Time	≤5ms			
Peripheral				
Short	For 1 second; Switch to Bypass,			
O a da a d	then shutdown			
Overload	105-125% for 3 seconds			
	>125% for 1 second; Switch to Bypass			
Temperature Range	-10°C50°C			
Compatibility				
Safety	IEC60204			
EMI / RFI	IEC61000			
Mechanical				
	2U x 19" x 360mm		2U x 19" x 390mm	
Dimensions	20 X 19 7	X 300111111	20 X 19 /	x 390111111

BLOCK DIAGRAM

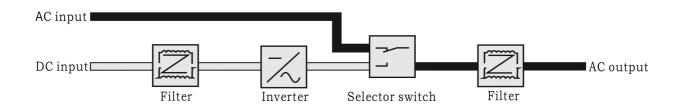
WORKING PRINCIPLE



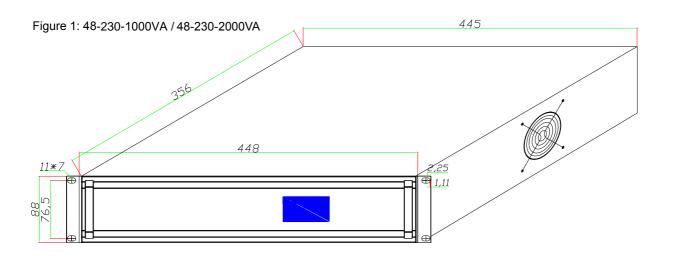
• DC MODE (Inverter)

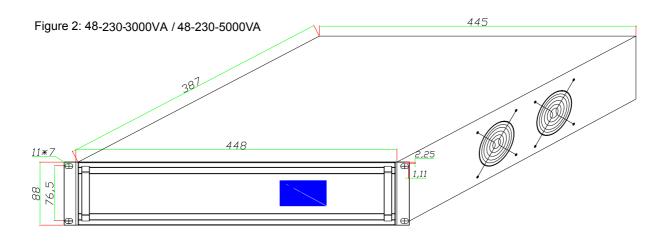


• AC MODE (By-Pass)

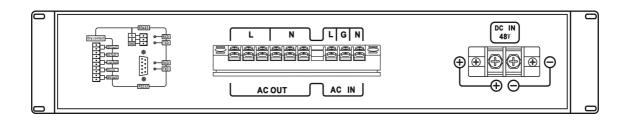


DRAWING





REAR PANEL









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