

AETES

110V DC INVERTER RM 4U

Pure Sine Wave AC Output

Useful LCD Front Panel

Small Size Design



"...power alliance..."

DESCRIPTION

AETES 110VDC Inverter RM 4U is a high technology equipment, including all protection and control systems, which is designed and manufactured to convert an 110V 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

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

GENERAL SPECIFICATION

Model: 110-230-08KVA 110-230-10KVA

DC Input

Voltage Range	Working 92V...132V (Starting 104V...130V DC)	
Rated Input Current	73A	91A
THDI	$\leq 10\%$	
Efficiency	$> 85\%$ (full linear load)	

AC Output

Voltage	220V AC	
Capacity	8kVA (6400W)	10kVA (8000W)
Max. Output Current	28A	36A
Line Regulation	$\pm 2\%$	
Frequency	50Hz or 60Hz $\pm 0.2\text{Hz}$	
Wave Form	Pure Sine Wave	
THD Linear	$\leq 3\%$	
Load Regulation	$\leq 5\%$ (load 0% to 100%)	

AC Bypass Input

Voltage Range	176V...270V AC ($\pm 10\text{V}$)
Transfer Time	$\leq 5\text{ms}$

Peripheral

Short	For 1 second; Switch to Bypass, then shutdown
Overload	105-125% for 3 seconds >125% for 1 second; Switch to Bypass
Temperature Range	$-10^{\circ}\text{C} \dots 50^{\circ}\text{C}$

Compatibility

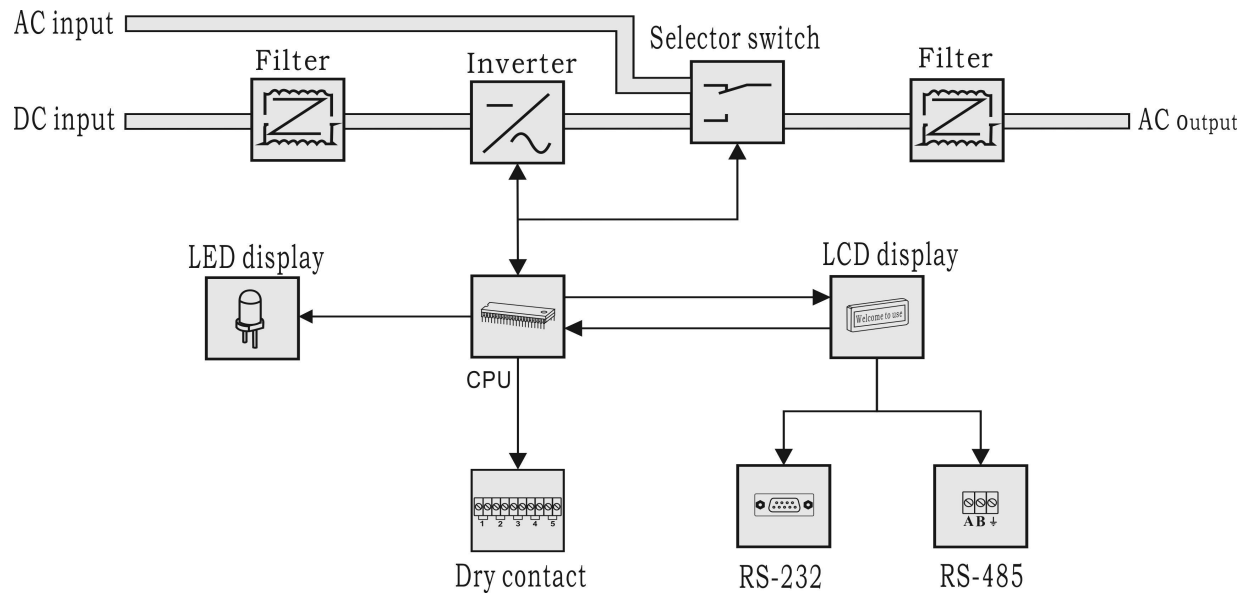
Safety	IEC60204
EMI / RFI	IEC61000

Mechanical

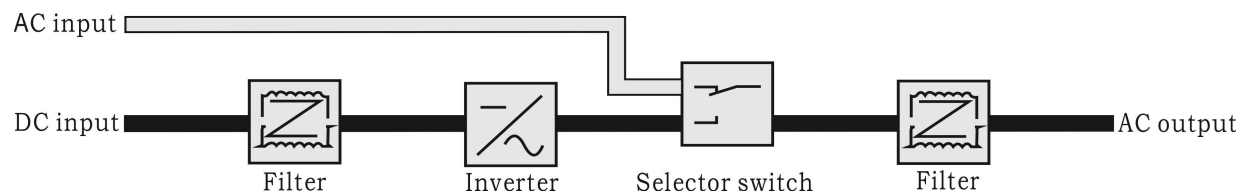
Dimensions	4U x 19" x 500mm	4U x 19" x 500mm
Weight	23 kg	25 kg

BLOCK DIAGRAM

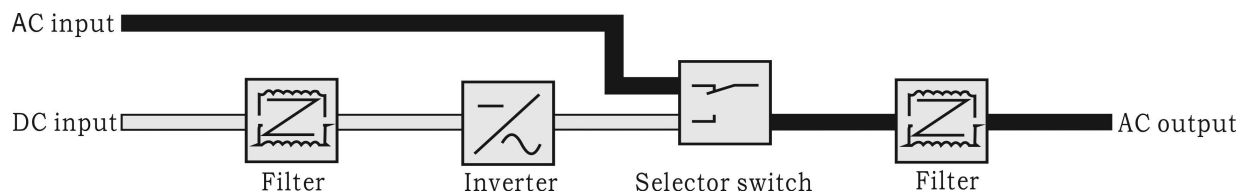
● WORKING PRINCIPLE



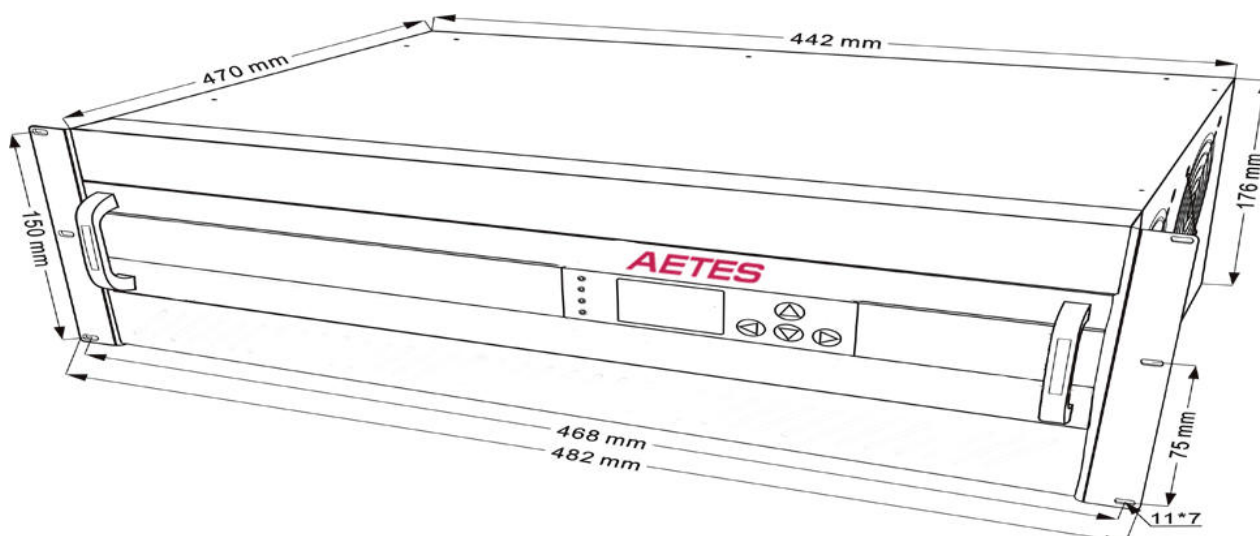
● DC MODE (Inverter)



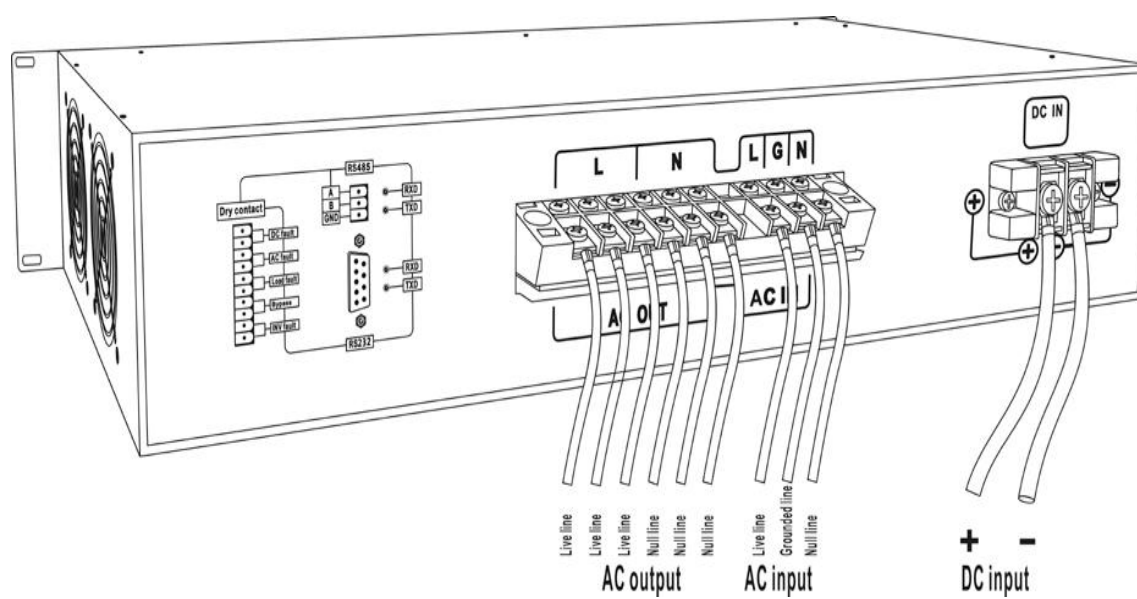
● AC MODE (By-Pass)



DRAWING



REAR PANEL



"...power alliance..."



AETES
"...power alliance..."

The specifications, drawings and images indicated in this document are based on current information. All content is subject to modifications or additions. For more information on our local sales offices, visit us at our website below.