

AETES

ERM 125VDC to AC Inverter

Pure Sine Wave AC Output

Useful LCD Front Panel

Small Size Design



"...power alliance..."

Description

AETES ERM Series Inverters is a high technology equipment, including all protection and control systems, which is designed and manufactured to convert an 125VDC 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 projects.

This equipment contains internal line filters, it provides full electrical quality between DC and 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.

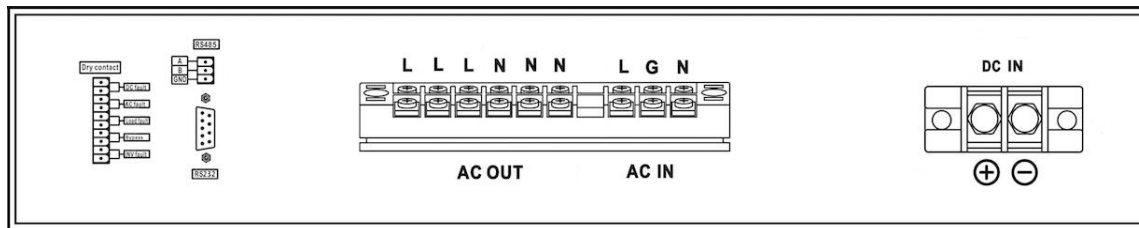
Features

- Useful LCD Display, Showing Measurements, Status and Alarm Message
- Low Output Voltage Harmonics
- Advanced Communication Options for Remote Monitoring
- AC By-pass Input with wide 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 Status Indication
- Lightweight and Slim Structure Provided by the Latest Semiconductor Technology

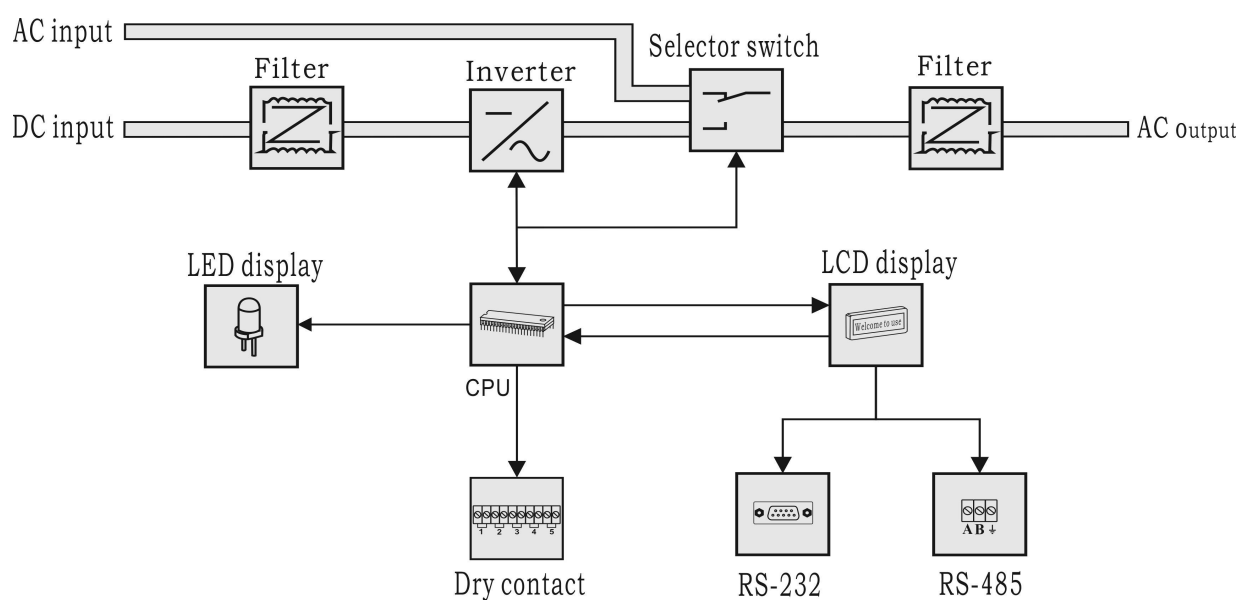
Specification

MODEL	ERM-125-1P3-2K5	ERM-125-1P3-5K0	ERM-125-1P3-7K5	ERM-125-1P3-10K	
ITEMS					
Output Power (Continuous) Output	2500VA/ 2000W	5000VA/ 4000W	7500VA/ 6000W	10kVA/ 8kW	
Power Boost Capability	2400W for 60s.	4800W for 60s.	7200W for 60s.	9.6kW for 60s.	
Output Peak Capability	2800W for 10s.	5600W for 10s.	8400W for 10s.	11.2kW for 10s.	
Input Voltage Range	90V...150V DC (Starting 100V...145V DC)				
Output Voltage	1-Phase (P-N) 120V or 220V AC (Order Option)		1-Phase (P-N) 220V AC		
Output Frequency	50Hz or 60Hz ±0.1% (Order Option)				
High Voltage Protection	Yes				
Output Over Load Protection	Yes				
Over Temperature Protection	Yes				
Short-Circuit Protection	Yes				
Efficiency Typ.	>85%				
Line Regulation (max.)	≤±2%				
Load Regulation (max.)	≤±5%				
THD Linear (max.)	≤±3%				
Communication	RS232 & RS485				
Status Indicators	4 LED & 5 Dry Contacts				
Remote Monitoring	TCP / SNMP (Optional)				
AC By-Pass Transfer Time	≤6ms				
Enclosure Material / Color	Metal / Black				
Cooling	Internal Fan-Forced				
Operating Temperature	-10°C to +50°C				
Storage Temperature	-30°C to +70°C				
Humidity (Non Condensing)	20-90% RH operating and non operating				
Withstand Voltage (One Minute)	Input to Ground 1500VAC, Input to Output 1500VAC, Output to Ground 1500VAC				
Isolation Resistance	>50MΩ at +25°C & 95%RH, Output to Ground 500VDC				
Safety Compatibility	EN60950-1				
EMI Compatibility	EN55032 Class B				
Weight (Typ)	11 kg	14 kg	23 kg	25 kg	
Dimensions	B:2U D:350 E:440 mm	B:2U D:430 E:440 mm	B:4U D:470 E:440 mm	B:4U D:470 E:440 mm	
Warranty	2-Year				

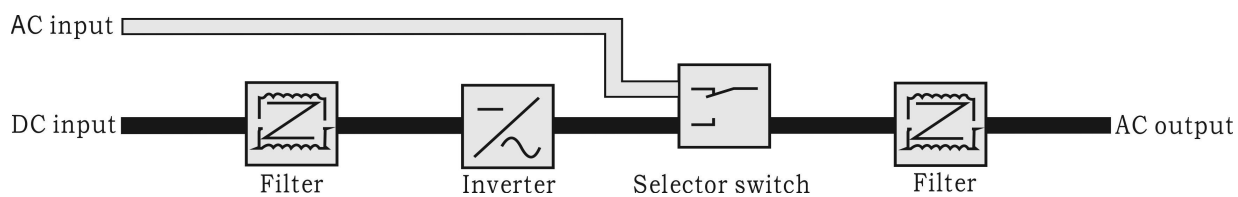
Rear Panel



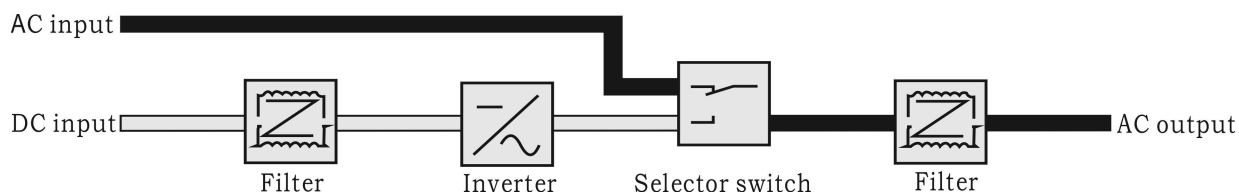
Block Diagram



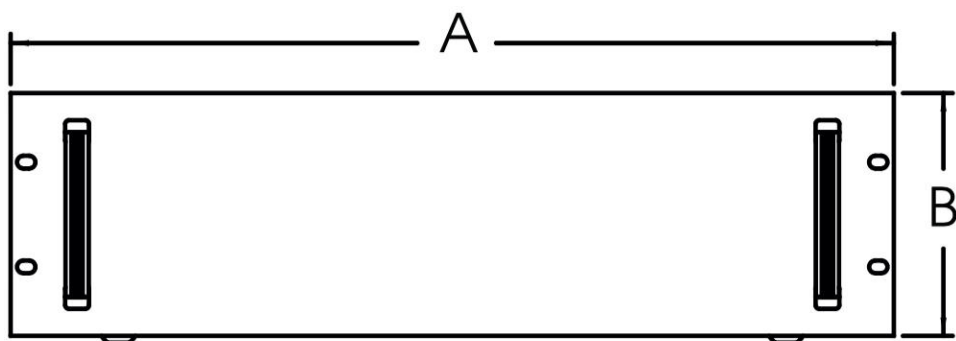
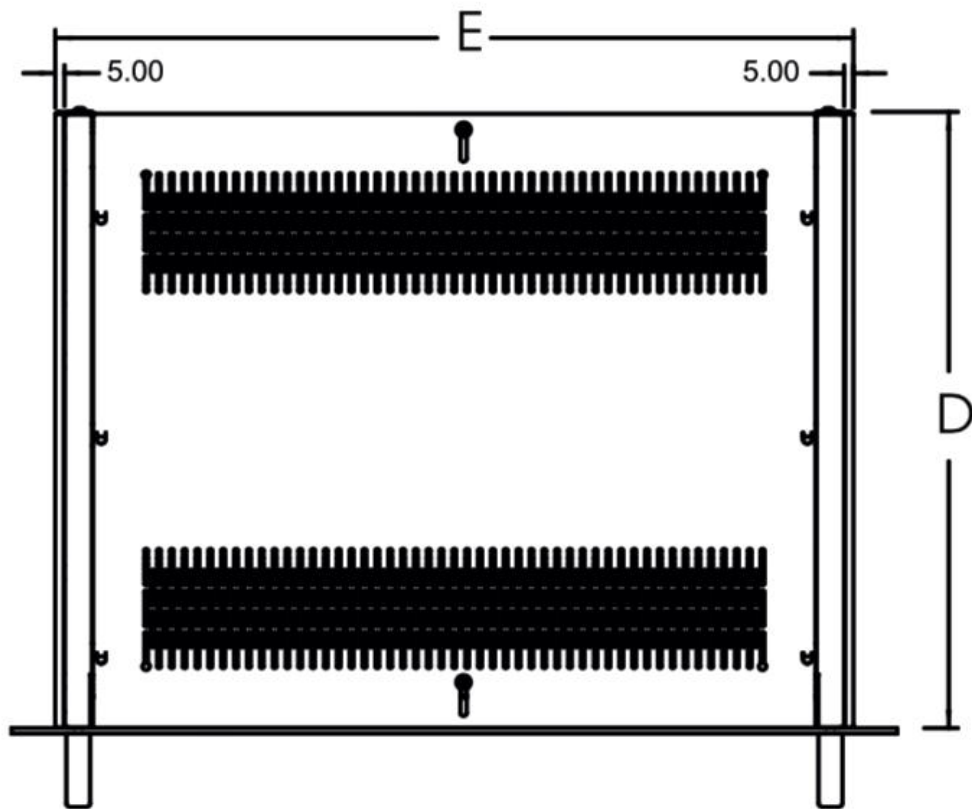
DC MODE (Inverter)



AC MODE (By-Pass)



Drawing



"...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.