

AETES

ERM 125VDC to 120VAC Inverter

Pure Sine Wave AC Output

Useful LCD Front Panel

Small Size Design



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Description

AETES ERM 2U Series Inverters is a high technology equipment equipment, including all protection and control systems, which is designed and manufactured to convert an 125V DC voltage to pure sinus and regulated 120V AC voltage with a 60 Hz 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.

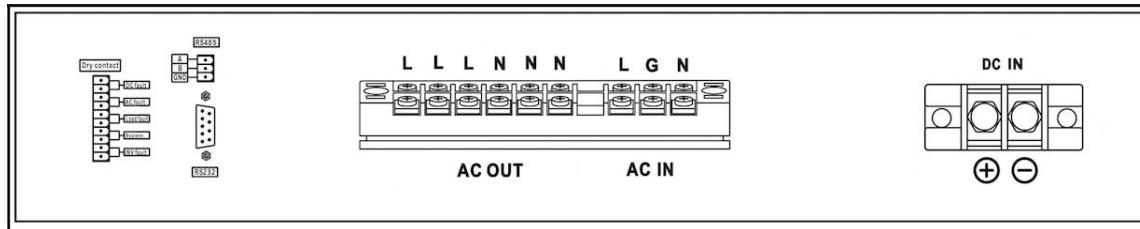
Features

- Useful LCD Display, Showing Measurements, Status and Alarm Message
- Low Output Voltage Harmonics
- Modbus Communication with RS232, RS485 ports
- AC Static 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 for Status and Alarm Indication
- Lightweight and Slim Structure Provided by the Latest Semiconductor Technology

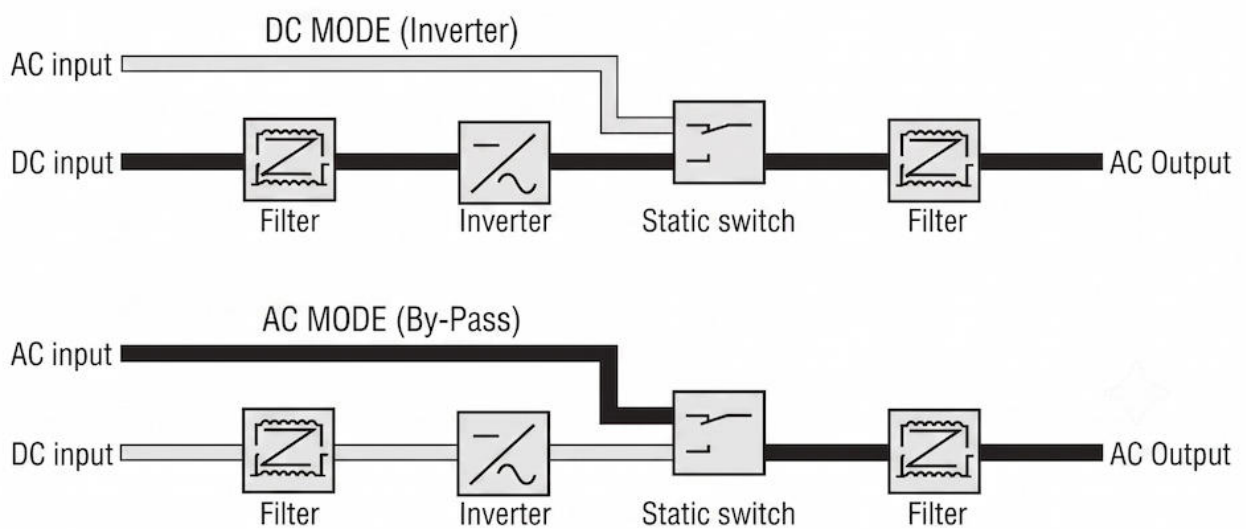
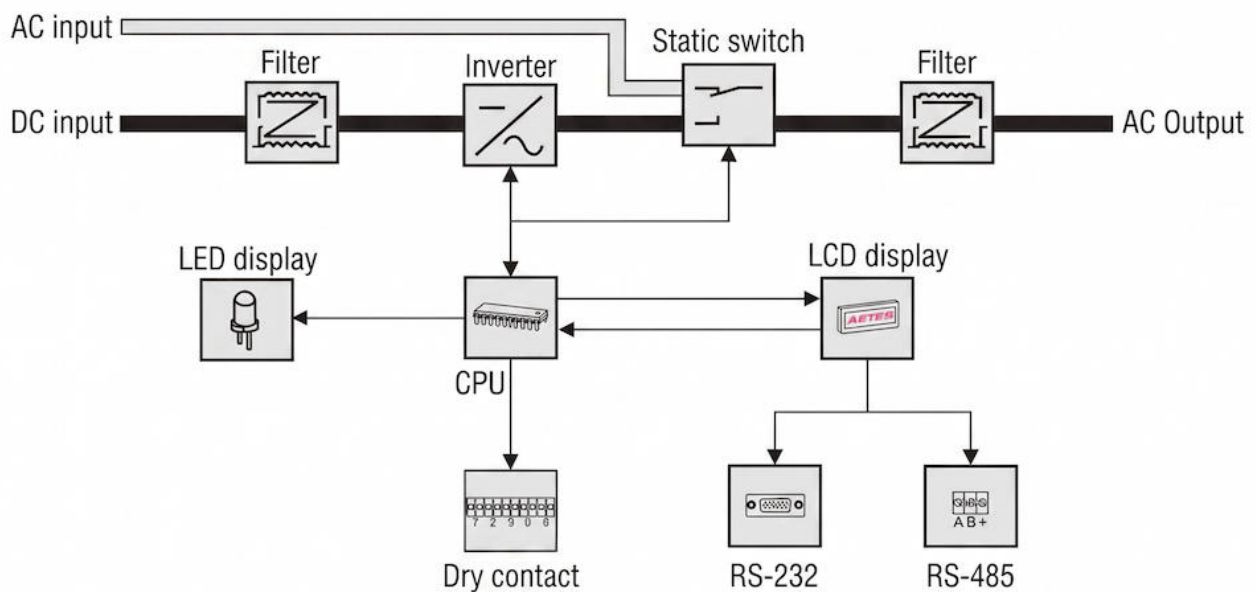
Specification

MODEL	ERM-125-120-1K0	ERM-125-120-1K5	ERM-125-120-2K0	ERM-125-120-3K0
ITEMS				
Output Power (Continuous)	1000VA/ 800W	1500VA/ 1200W	2000VA/ 1600W	3000VA/ 2400W
Output Power Boost Capability	900W for 60s.	1400W for 60s.	1900W for 60s.	2800W for 60s.
Output Peak Capability	1100W for 10s.	1600W for 10s.	2200W for 10s.	3300W for 10s.
Input Voltage Range	90V...150V DC (Starting 100V...145V DC)			
Output Voltage	1-Phase (P-N) 120V AC			
Output Frequency	60Hz $\pm 0.1\%$			
High Voltage Protection	Yes			
Output Over Load Protection	Yes			
Over Temperature Protection	Yes			
Short-Circuit Protection	Yes			
Efficiency Typ.	$>85\%$			
Line Regulation (max.)	$\leq \pm 2\%$			
Load Regulation (max.)	$\leq \pm 5\%$			
THD Linear (max.)	$\leq \pm 3\%$			
Communication	Modbus RS232 & RS485			
Status & Alarm Indicators	4 LED & Audible Alerts			
Status & Alarm Outputs	(5) Dry Contacts			
AC By-Pass Transfer Time	$\leq 6\text{ms}$			
Enclosure Material / Color	Metal / Black			
Cooling	Internal Fan-Forced			
Operating Temperature	-10°C to $+50^{\circ}\text{C}$			
Storage Temperature	-30°C to $+70^{\circ}\text{C}$			
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	$>50\text{M}\Omega$ at $+25^{\circ}\text{C}$ & 95%RH, Output to Ground 500VDC			
Safety Compatibility	EN60950-1			
EMI Compatibility	EN55032 Class B			
Weight (Typ)	9 kg	10 kg	10 kg	12 kg
Dimensions	B:2U D:360 E:440 mm	B:2U D:360 E:440 mm	B:2U D:360 E:440 mm	B:2U D:390 E:440 mm
Warranty	2-Year			

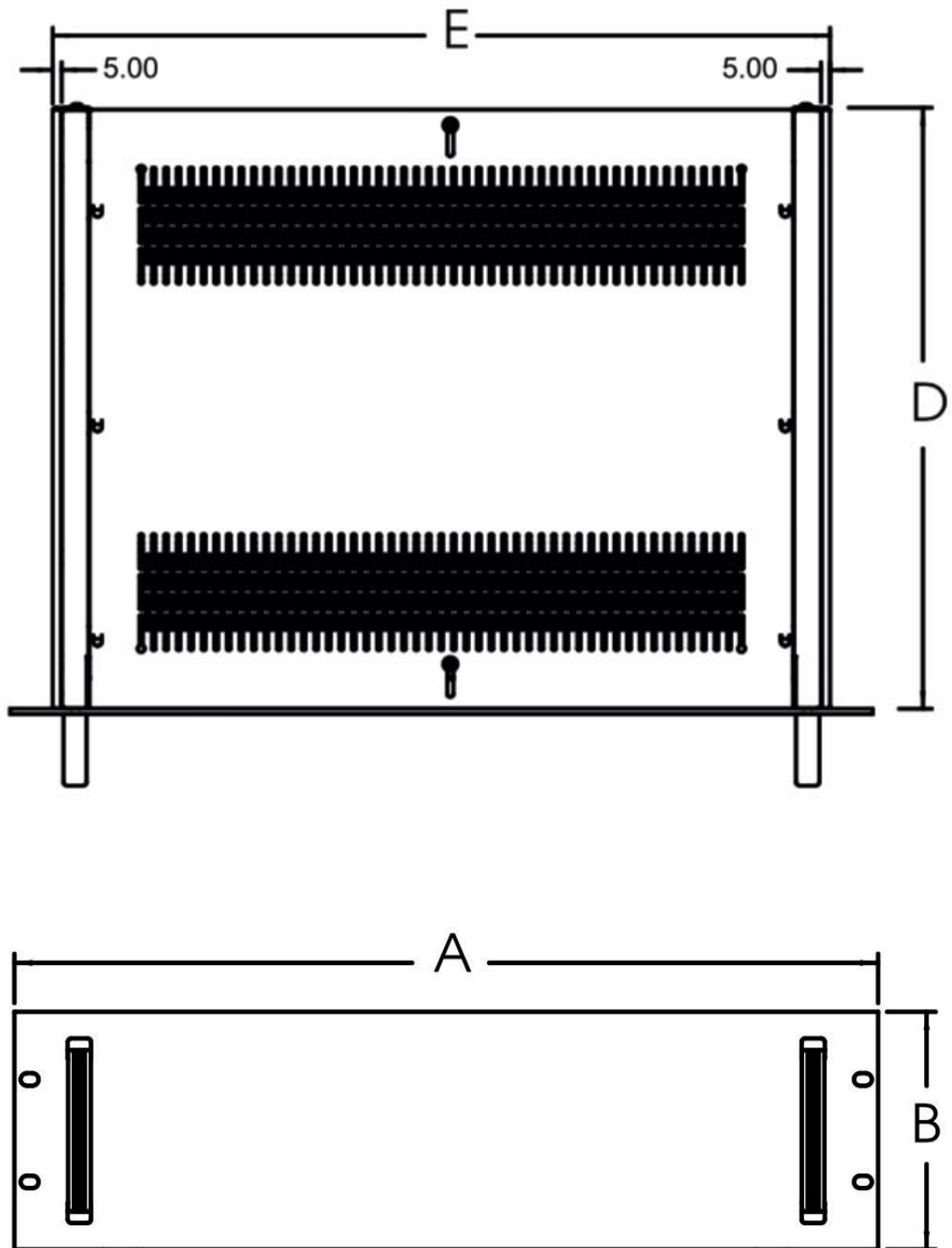
Rear Panel



Block Diagram



Drawing



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