

ERM 110VDC 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 110VDC 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.

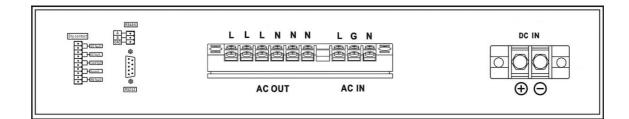
Features

- 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

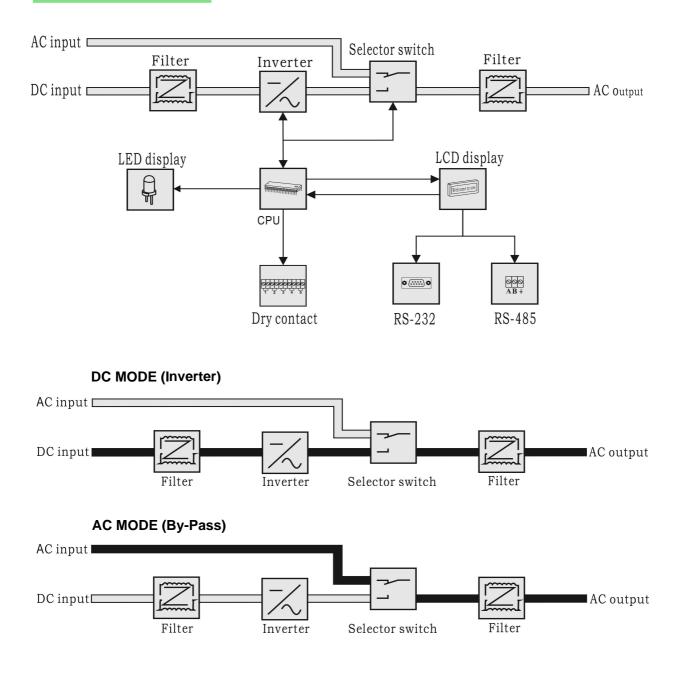
Specification

MODEL	ERM-110-1P3-2K5	ERM-110-1P3-5K0	ERM-110-1P3-7K5	ERM-110-1P3-10K
ITEMS Output Power (Continous)	2500VA/ 2000W	5000VA/ 4000W	7500VA/ 6000W	10kVA/ 8kW
Output Power Boost Capability	2400W for 60s.	4800W for 60s.	7200W for 60s.	9.6kW for 60s.
Output Peak Capability	2400W for 10s.	5600W for 10s.	8400W for 10s.	11.2kW for 10s.
Input Voltage Range	200011101 103.			11.2KW 101 103.
Output Voltage	92 V132 V DC (Starting 105 V130 V DC)			
	1-Phase (P-N) 110V or 220V AC (Order Option)			
Output Frequency	50Hz or 60Hz ±0.1% (Order Option) Yes			
High Voltage Protection Output Over Load Protection	Yes			
	Yes			
Over Temperature Protection Short-Circuit Protection	Yes			
	>85%			
Effiency Typ. Line Regulation (max.)				
Load Regulation (max.)	≤±2% ≤±5%			
•	≤±3%			
THD Linear (max.) 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			
	Internal Fan-Forced			
Cooling				
Operating Temperature	- 10°C to +50°C			
StorageTemperature	-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 >50MΩat +25°C & 95%RH, Output to Ground 500VDC			
Isolation Resistance				
Safety Compatibility	EN60950-1 EN55032 Class B			
EMI Compatibility				
Weight (Typ) Dimensions	12 kg	14 kg	23 kg	25 kg
DIIIIGI1910119	B:2U D:390 E:440 mm	B:2U D:390 E:440 mm	B:4U D:470 E:440 mm	B:4U D:470 E:440 mm

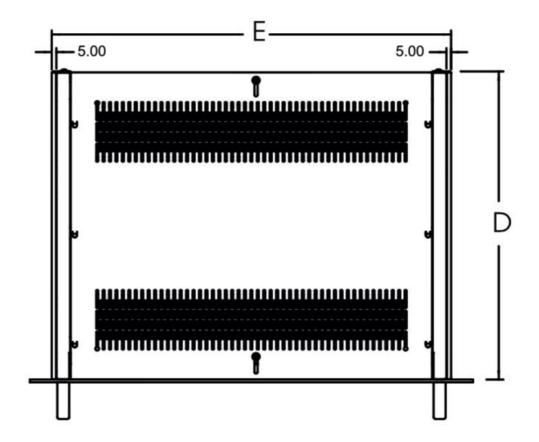
Rear Panel

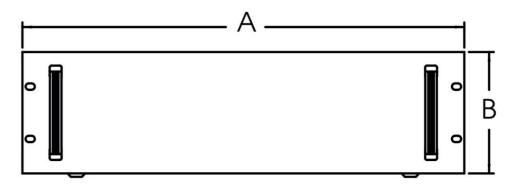


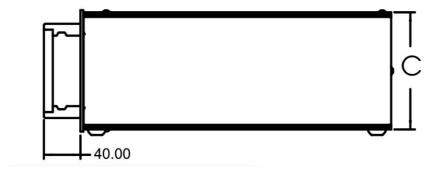
Block Diagram

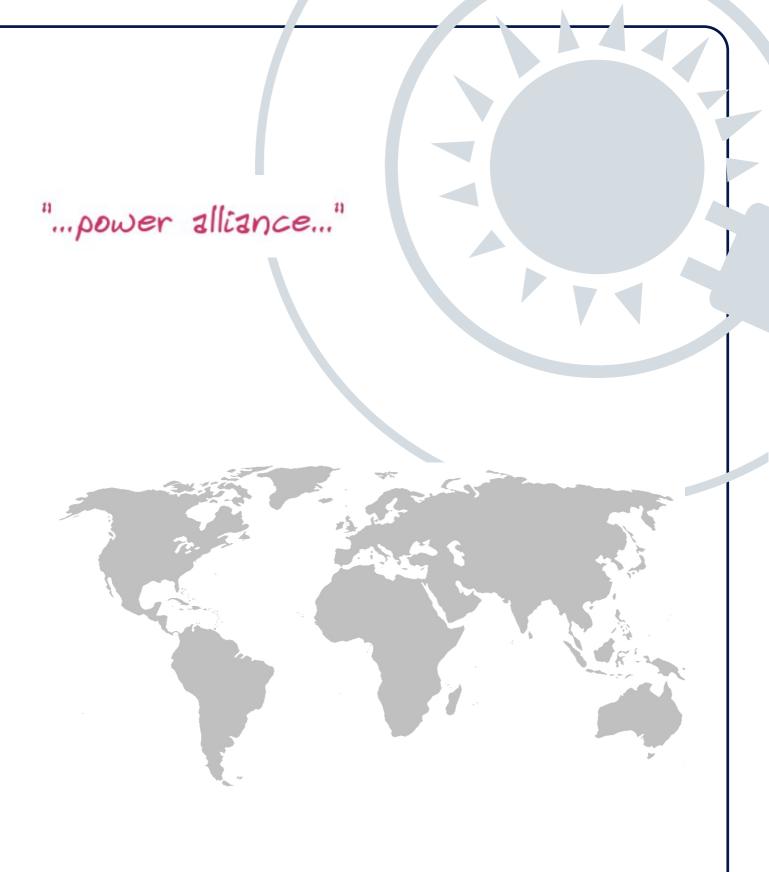


Drawing











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