AETES

ERM 220VDC 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 220VDC 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.

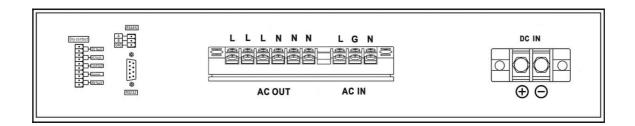
Features

- 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

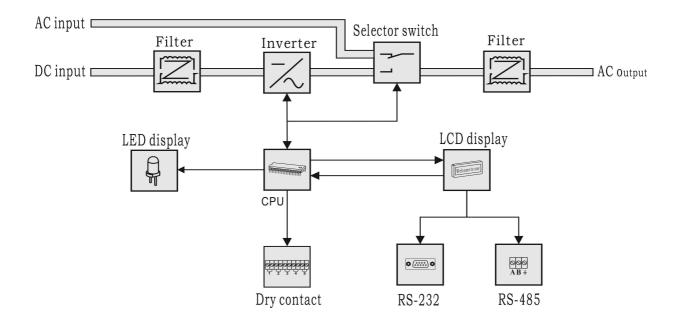
Specification

| MODEL | ERM-220-1P3-2K5 | ERM-220-1P3-5K0 | ERM-220-1P3-7K5 | ERM-220-1P3-10K |
|---------------------------------|--|---------------------|---------------------|--------------------|
| ITEMS | ERW ZZO II O ZRO | EKMI ZEO II O OKO | ERRI EEO II O IRRO | |
| Output Power (Continous) 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 | 182 V274 V DC (Starting 210 V260 V DC) | | | |
| Output Voltage | 1-Phase (P-N) 110V or 220V AC (Order Option) | | | |
| 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 | | | |
| Effiency 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 | | | |
| 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 | | | |
| Isolation Resistance | >50MΩat +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:444 mm | B:2U D:430 E:444 mm | B:4U D:470 E:444 mm | B:4U D:470 E:444 m |
| Warranty | 2-Year | | | |

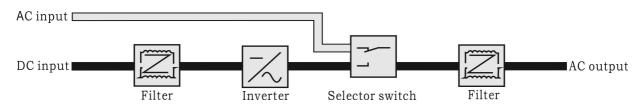
Rear Panel



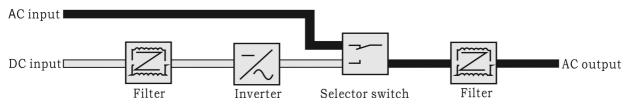
Block Diagram



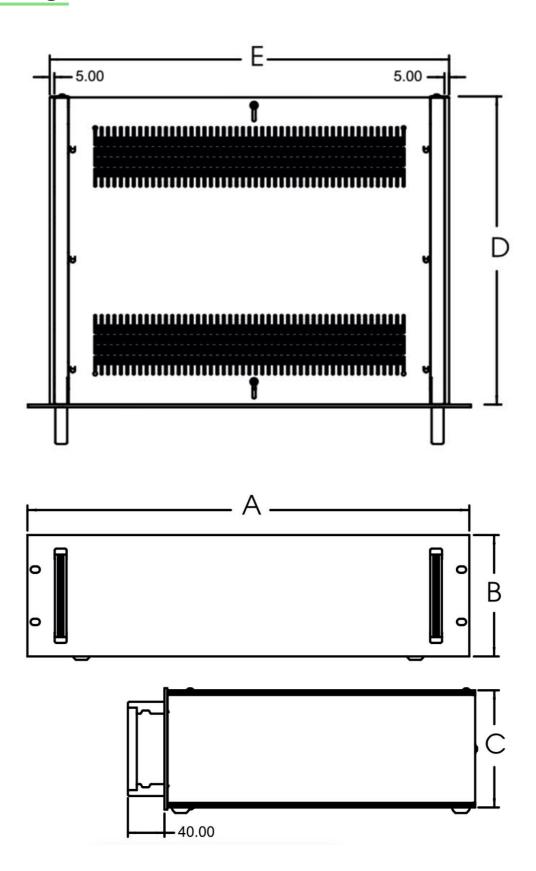
DC MODE (Inverter)



AC MODE (By-Pass)



Drawing









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