AETES

AC CONVERTER 1PH 400Hz

Internal Isolation Transformer Industrial-Grade Enclosure Advanced User Panel



"...power alliance..."

DESCRIPTION

AETES AC to AC 400Hz Converter is a high technology equipment, including all protection and control systems, which is designed and manufactured to convert an AC voltage to an other pure sinus and regulated AC voltage with 400Hz frequency. It provides AC power, which is especially important for Industry, Marine, Naval and Defence applications. This equipment contains an output isolation transformer, it provides full electrical isolation between AC input supply and AC output, and uses all advantages of Digital Signal Processor control. It provides handy user interface and advanced communication features.



FEATURES

- Internal Isolation Transformer at output
- Full digital controlled conventional rectifier and IGBT inverter
- Soft start, smart control and high reliability with digital signal processor
- User language selection from front panel (DE, EN, ES, NL, PT, TR etc.)
- Low output voltage ripple and high reliability
- User panel with LCD display, showing measurements, status and alarm messages
- Audible alarm and led indicators for easy observation of status
- Calibration of measurements from front panel
- DC Low, DC High, Line Failure, Over Temperature, Short Circuit protections
- Ability to program all operation parameters (Password Protected)
- Programmable alarm relay contact outputs (4 standard, up to 16 relays as option)
- Voltage Vector Control technology
- Modbus RS232 communication, standard
- Log records with date and time stamp up the 200 events

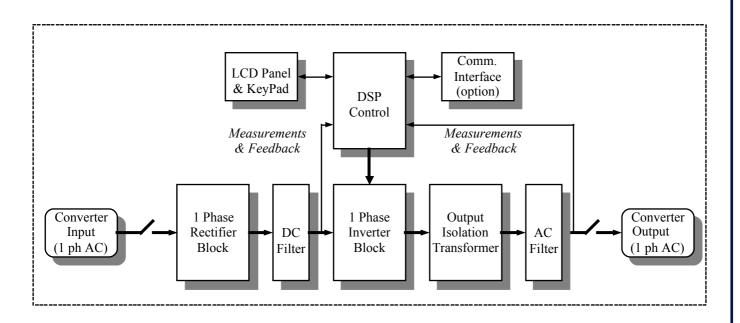
GENERAL SPECIFICATION

MODEL : FTM 1P1-400-0	C /05K	/10K	/15K	/20K	
INPUT					
Nominal Voltage	Options: 1-	Phase (P+N+G) AC 110V, 1	20V, 127V, 220V, 230V, 240V	/ (±15%)	
Nominal Frequency		50Hz or 60Hz (±10%)			
Power Factor (Nominal)		0.80			
Input Protection	Thern	Thermic Magnetic Overcurrent Protection, Overvoltage Protection			
ОИТРИТ					
Nominal Voltage	Optio	Options: 1-Phase (P+P or P+N+G) AC 110V, 115V, 120V (±1%)			
Nominal Frequency		400Hz			
Output Voltage Adjustment		Optional			
Crest Factor		3:1			
THD		<3% at Linear Load			
Power Rating (kVA)	5 kVA	10 kVA	15 kVA	20 kVA	
Power Rating (kW)	3500W	7000W	10500W	14000W	
GENERAL PROPERTIES					
Circuit Breakers		Thermic-magnetic circuit breakers for input			
Cooling		Fan Forced Cooling (Standard), Natural Cooling (Optional)			
Isolation Voltage		1500 or 3000VAC input/chassis and output/chassis			
Efficiency at full load		>88%			
Protection level		IP21			
Cable Entry		Front Bottom			
ENVIRONMANTAL					
Acoustic Noise		<	 65 dB		
Storage Temperature		(-20 °C) – (+70 °C)			
Operating Temperature		(-5°C) - (+50°C)			
Relative Humidity		0 - 90% Non-condensing			
Max Altitude		2000m			
COMMUNICATION					
Communication	ModBus RS232 (Sta	ModBus RS232 (Standard), 4 Dry Contacts (Standard), RS485 (Optional), TCP IP (Optional),			
COMPATION TO	-				
COMPATIBILITY Design Criteria		IEC62040-1,	IEC62040-2		
Doorgii Ontona		1002040-1,	12002070 2		
MECHANICAL					
Color		RAL7035 (Standard), others (Optional)			
	4 500 B 100 C 1000	A:500 B:480 C:1000 A:620 B:600 C:1300 A:800 B:800 C:1600			

OPTIONS

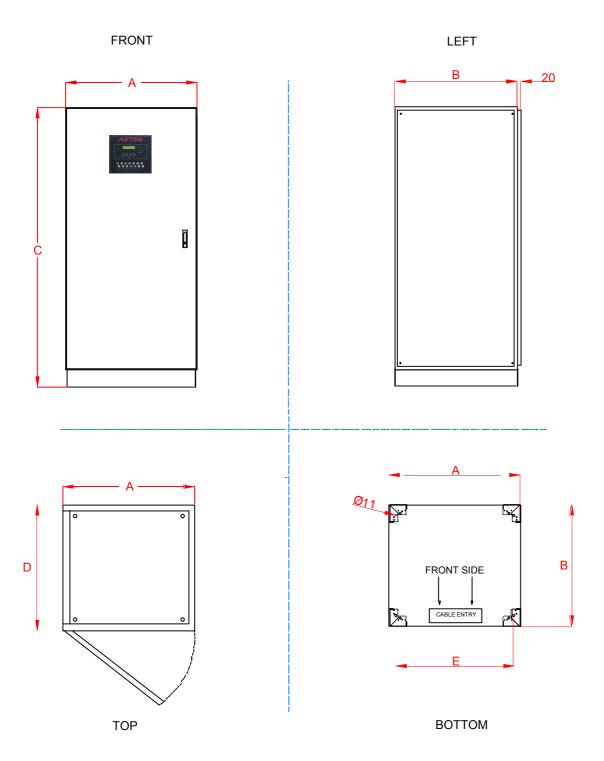
- Active Parallel Current Sharing operation up to 4 devices
- Surge Suppression Device and Input Snubber modules
- Analog Gauges (Input / Output Voltages and Currents)
- Transducers for Input / Output Voltage, Current (4-20mA and 0-10V)
- Internal Auxiliary 28VDC 45Amp Output.
- Wide Screen HMI Touch Panel and Mimic Diagram
- Powermeter for Input Power Factor / kVA / kW measurement
- Additional Dry Contact Relay boards (Max. 3 pcs, 12 relays)
- Internal cabinet heating, lighting
- Enclosure paint and IP change (IP31, IP41, IP54)
- Specified DC bus voltage with battery input and battery breaker
- Additional communication ports; RS485/ TCP IP

BLOCK DIAGRAM



AETES AC-AC 1-Phase 400Hz Converter Block Diagram

DRAWING









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.