AETES AC CONVERTER 3PH 60Hz

Internal Isolation Transformer Industrial-Grade Enclosure Advanced User Panel



"...power alliance ..."

DESCRIPTION

AETES AC 50Hz to AC 60Hz Converter is a high technology equipment, including all protection and control systems, which is designed and manufactured to convert an AC voltage 50hz to another pure sinus and regulated AC voltage with 60Hz frequency. It provides AC power, which is especially important for energy and industry 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

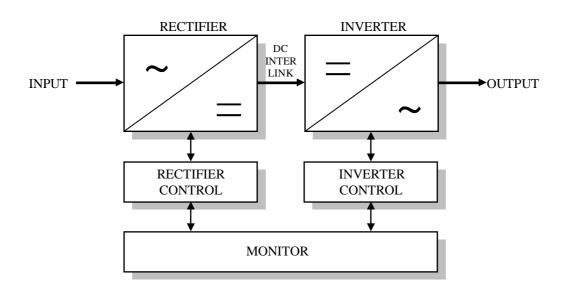
GENERAL SPECIFICATION

MODEL :	400-208-10K	400-208-20K	400-208-30K	400-208-40K
INPUT				
Nominal Voltage	Options: 3P4W or 3P3W AC 380/220V ; 400/230V ; 415/240V (±15%)			
Nominal Frequency	50Hz (±10%)			
Power Factor (Nominal)	0.80 (<0.90 at 12 Pulse Optional)			
ITHD	<30-35% standard (<12% at 12 pulse Optional)			
OUTPUT				
Nominal Voltage	Options: 3P4W or 3P3W or 2P3W AC 190V ; 200V ; 208V ; 220V ; 240V (±1%)			
Nominal Frequency	60Hz			
	Optional			
Output Voltage Adjustment Crest Factor	3:1			
THD	<3% at Linear Load			
Power Rating (kVA)	10 kVA	20 kVA	30 kVA	40 kVA
Power Rating (kW)	8 kW	16 kW	24 kW	32 kW
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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	5 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 (Standard), 4 Dry Contacts (Standard), RS485 (Optional), TCP IP (Optional), MQTT (Optional)			
COMPATIBILITY				
Design Criteria	IEC62040-1, IEC62040-2			
MECHANICAL				
Color	RAL7035 (Standard), others (Optional)			
Dimensions (mm)	A:600 B:600 C:1300 A:800 B:800 C:1600			
NOTE: All specifications subject All terms or names used	t to change without notice. Co above are registered tradem			applications.

OPTIONS

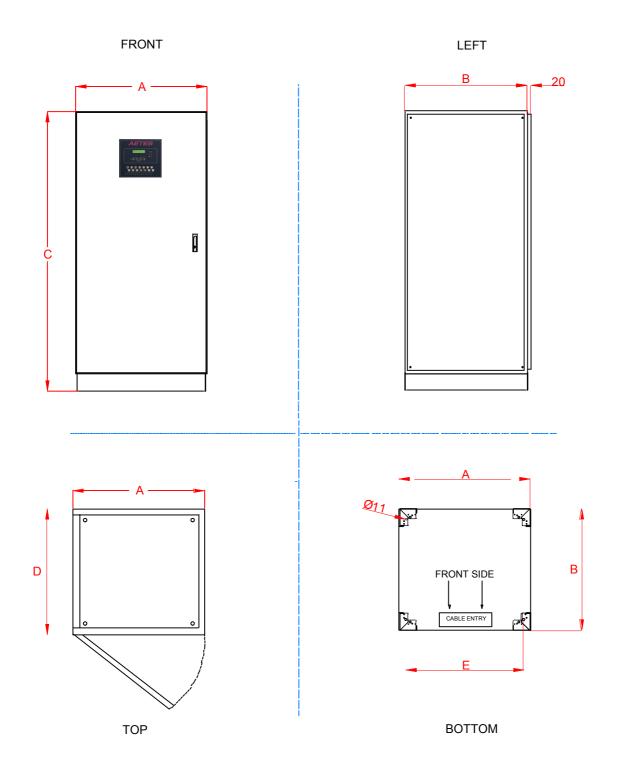
- 12 Pulse option to limit input current distortion
- Active Parallel Current Sharing operation up to 4 devices
- Surge Suppression Device and Input Snubber modules
- Analog Gauges (Input / Output Voltages and Currents)
- Transducers for Input / Output Voltage / Current (4-20mA and 0-10V)
- AC Earth Leakage Monitoring
- 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/ MQTT

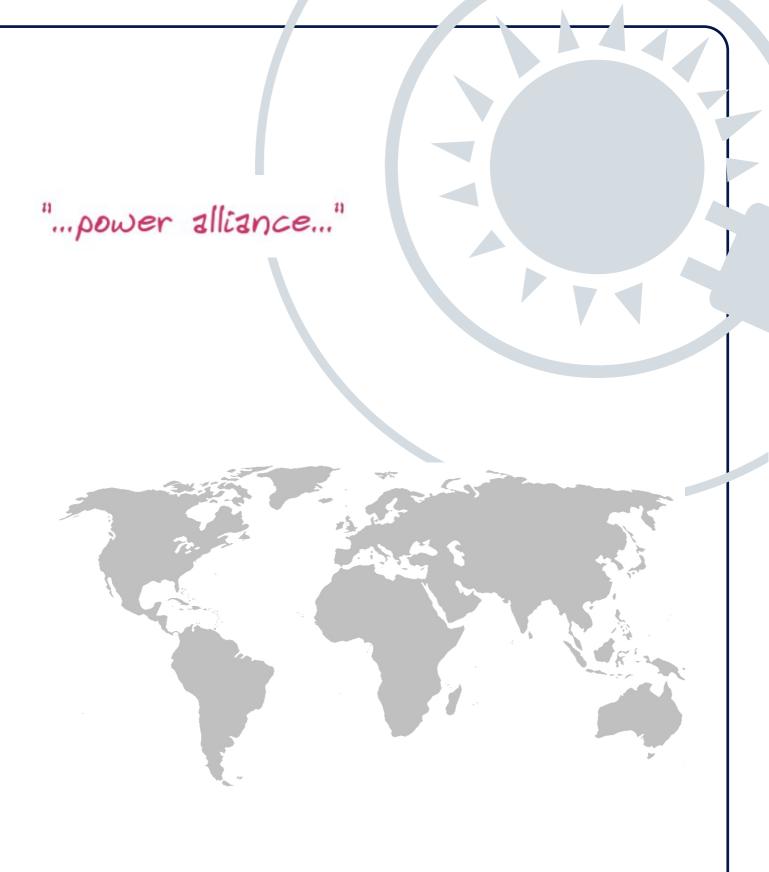
BLOCK DIAGRAM



AETES AC-AC Converter 3PH Block Diagram

DRAWING







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