

AETES

Battery Charger 110VDC

High-Frequency Conversion

Wall-Mounting Enclosure

Advanced User Panel



"...power alliance..."

FEATURES

- Full Digital Controlled IGBT Rectifier
- Soft Start, Smart control and high reliability with Digital Signal Processor
- Float charge, equalizing charge and boost charge modes
- Automatic and manual charge modes
- Low output voltage ripple and high reliability
- User panel with LCD display, showing measurements and alarm messages
- Audible alarm and Led displays for easy observation of device status
- Programmable current limitation
- User language selection from front panel (DE, EN, ES, NL, PT, TR)
- 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
- Battery Temperature Compensation
- Modbus-RTU RS232 Communication
- Log records with date and time stamp up to 200 events

OPTIONS

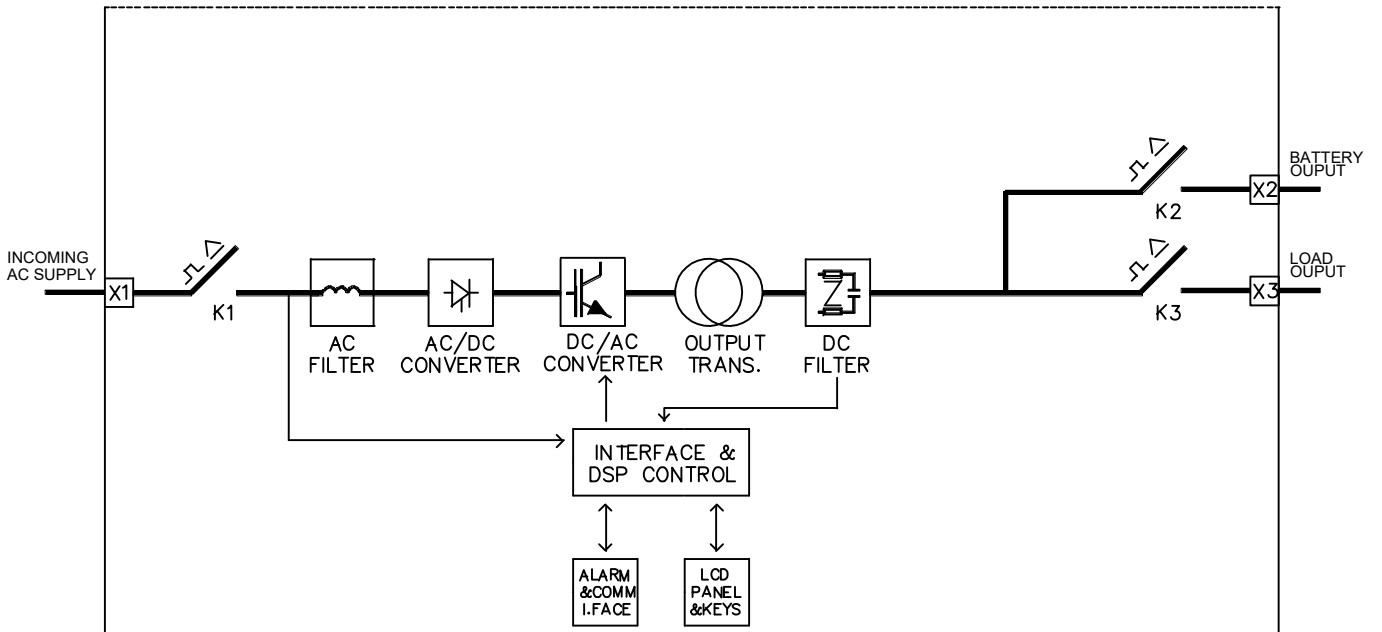
- TFT Touch Panel and Mimic Diagram
- Active parallel current sharing operation up to 4 devices
- Voltage Dropper Module for load output
- Analog Gauges (Input / Output / Battery Voltages and Currents)
- Transducers for Input / Output Voltage / Current (4-20mA and 0-10V)
- DC Earth Leakage Monitoring
- Additional Dry Contact Relay Boards (Max 3 pcs, 12 relays)
- Internal Cabinet Heater
- Alarm and Communication Interface RS485/ TCP-IP

GENERAL SPECIFICATION

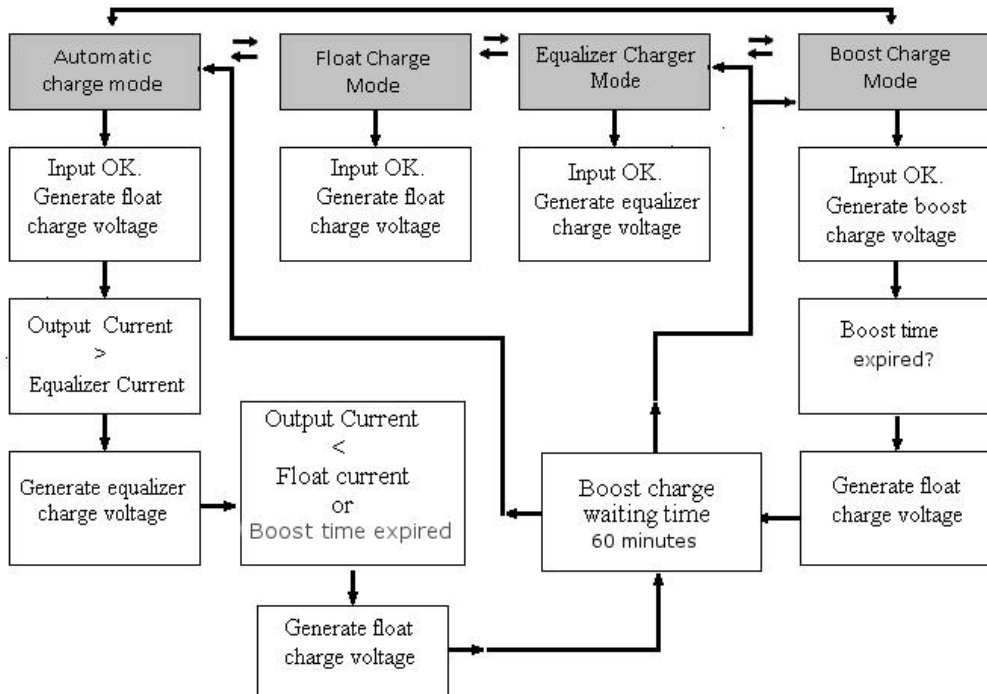
MODEL : XWM 1PH-110-C	/20A	/30A	/40A
INPUT			
Nominal Voltage	Options: 1-Phase 110V / 120V / 127V / 220V / 230V / 240V AC ($\pm 15\%$)		
Nominal Frequency	50Hz / 60Hz ($\pm 10\%$)		
Power Factor (Nominal)	0.90		
Input Protection	Overcurrent Protection, Overvoltage Protection		
OUTPUT			
Nominal Output Voltage	110VDC		
Output Voltage Adjustment	110V...132V DC (Optional 90V...142V DC)		
Output Current Adjustment	10-100% of Nominal Output Current		
Float Charger Voltage Range	100%-120% of Nominal Output Voltage		
Boost Charger Voltage	100% to 120% of Nominal Output Voltage		
Boost Voltage (V/C)	2,40 Lead Acid Battery 1,50 NiCd Battery		
Float Voltage (V/C)	2,24 Lead Acid Battery 1,40 NiCd Battery		
Nominal Output Current	20 Amp	30 Amp	40 Amp
Max Output Current	22 Amp	33 Amp	44 Amp
Voltage Ripple / Regulation	< 1.0% / <0.5%		
GENERAL PROPERTIES			
Bost Timer	0-99.9 hours adjustable		
Cooling	Fan Forced Cooling		
Isolation Voltage	1000 or 2000VAC input/chassis and output/chassis		
Efficiency at full load	<88%		
Protection level	IP20 (Standard) to IP54 (Optional)		
Cable Entry	Front Bottom		
Filtering	LC Filter		
Circuit Breakers	Circuit breakers for Input (Standard); for Battery and Load (Optional)		
Reset Button	Used for re-operation in case of fallure of the system.		
ENVIRONMANTAL			
Acoustic Noise	45 - 65 dB (according to Power Rating)		
Storage Temperature	(-10 °C) - (+70 °C)		
Operating Temperature	(-5°C) - (+50°C)		
Relative Humidity	0 - 95% Non-condensing		
Max Altitude	1000m (-1% Power for every 100m after 1000m) Max. 2000m		
Color	RAL7035 (Standard), others (Optional)		
COMMUNICATION & PARALLELING			
Communication	ModBus RS232 (Standard), 4 Dry Contacts (Standard), RS485 (Optional), TCP IP (Optional)		
Paralleling	Parallel Redundant Kit (Optional)		
COMPATIBILITY			
Standards	IEC62040-1, IEC62040-2		

NOTE: All specifications subject to change without notice. Consult AETES's Technical Support Department for special applications. All names used above are registered trademarks of their respective owners.

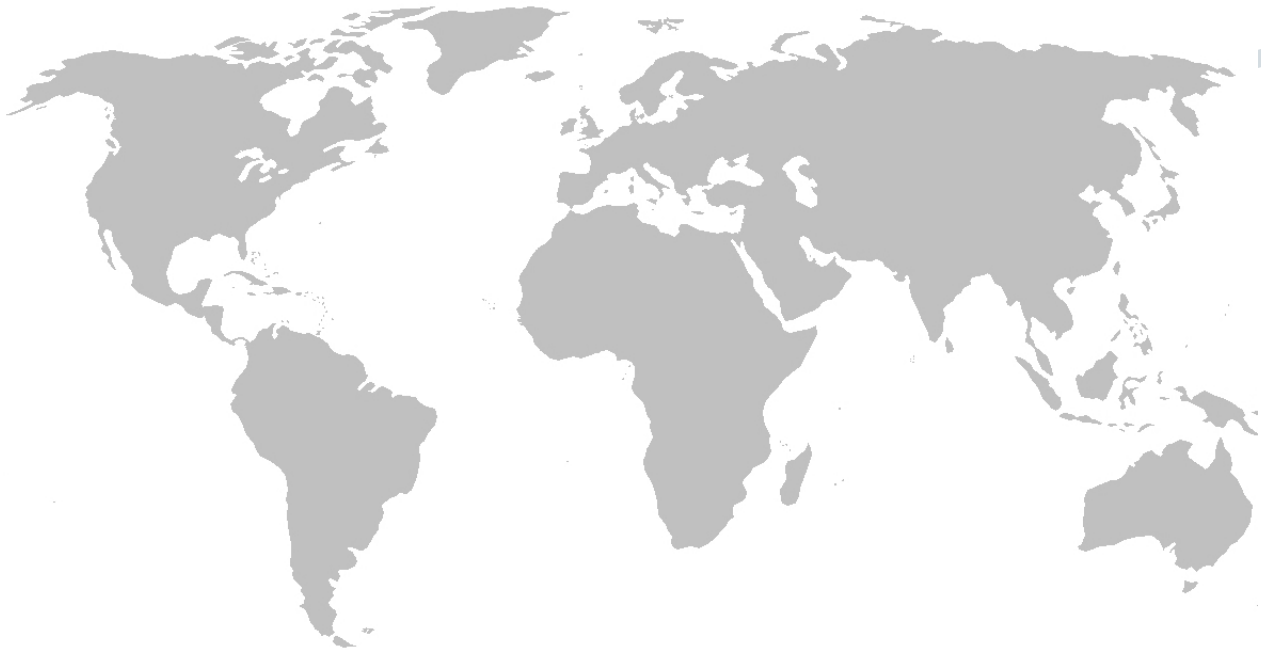
LINE DIAGRAM



FLOWCHART



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