

AETES

Rectifier Charger 1PH-130-C

*Internal Isolation Transformer
Industrial-Grade Enclosure
Advanced User Panel*



"...power alliance..."

DESCRIPTION

AETES XTM 1PH Series Industrial Rectifier Charger is a high technology equipment, including all protection and control systems, which is designed and manufactured to convert 1-Phase AC voltage to pure and regulated 130V DC voltage. It provides DC power, which is especially important for industrial and defence applications. When this system is used with a battery group at its output, this equipment charges batteries and acts as a Uninterruptible DC Power Source.

This equipment contains an input isolation transformer and provides full electrical isolation between input supply and 130 Volt DC output.

This uses all advantages of Digital Signal Processor control. It provides handy multilingual user interface, and automation compatible communication features. When used as battery charger, it can perform battery charge in 3 different modes: Float Charge, Equalizing Charge, Boost Charge.

FEATURES

- Internal Isolation Transformer at Input
- Full Digital Controlled Conventional 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, status and alarm messages
- Audible alarm and Led displays for easy observation of Rectifier 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 (4 standard, up to 16 relays as option)
- Low Voltage Disconnect (LVD) Protection
- Modbus RTU communication
- Log records with date and time stamp up the 200 events

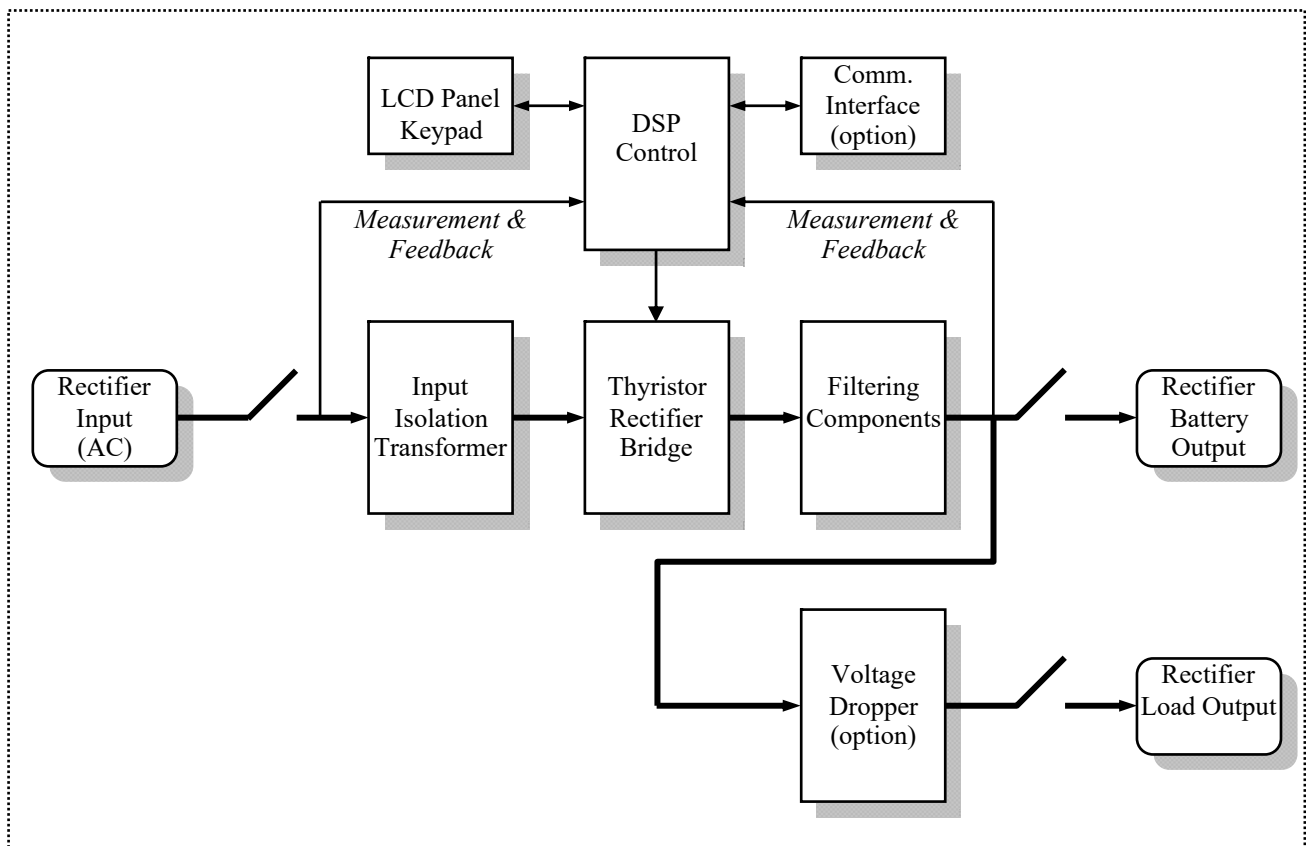
GENERAL SPECIFICATION

MODEL : XTM 1PH-125-C	/20A	/30A	/40A
INPUT			
Nominal Voltage	Options: 1-Phase or Split Phase 110V / 120V / 127V / 220V / 230V / 240V AC ($\pm 15\%$)		
Nominal Frequency	50Hz / 60Hz ($\pm 10\%$)		
Power Factor (Nominal)	0.75		
Input Protection	Thermic Magnetic Overcurrent Protection, Overvoltage Protection		
OUTPUT			
Nominal Output Voltage	130VDC		
Output Voltage Adjustment	130V...156V DC (Optional to 169V DC for NiCd)		
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% (opt.130%) 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	< 4% / <1%		
GENERAL PROPERTIES			
Bost Timer	0-99.9 hours adjustable		
Cooling	Fan Forced Cooling (Standard), Natural Cooling (Optional)		
Isolation Voltage	1500 or 3000VAC input/chassis and output/chassis		
Efficiency at full load	<85%		
Protection level	IP20 (Standard) to IP54 (Optional)		
Cable Entry	Front Bottom (Option: Top or Rear or Side)		
Filtering	LC Filter		
Circuit Breakers	Thermic-magnetic 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	(-20 °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. 4000m		
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.			

OPTIONS

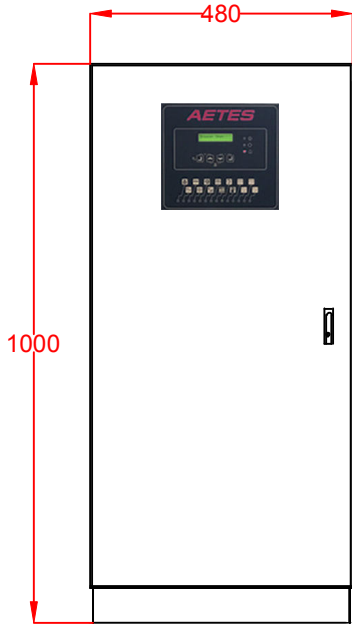
- Wide Screen HMI Touch Panel and Mimic Diagram
- Active parallel current sharing operation up to 4 devices
- Surge Suppression Device and Input Snubber Modules
- Battery Temperature Compensation Module
- Analog Gauges (Input / Output / Battery Voltages and Currents)
- Transducers for Input / Output Voltage / Current (4-20mA and 0-10V)
- Load Output Voltage Dropper
- Powermeter for Input Power Factor / kVA / kW measurement
- Additional Dry Contact Relay Boards (Max 3 pcs, 12 relays)
- Internal Cabinet Heater
- Additional Alarm and Communication Interface RS485/ TCP-IP

BLOCK DIAGRAM

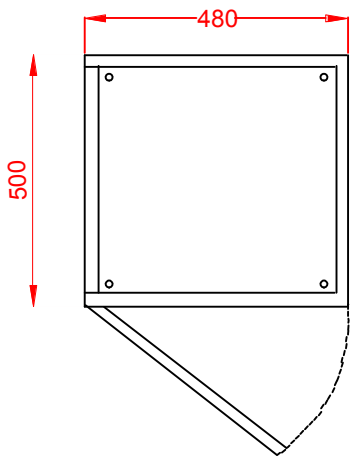
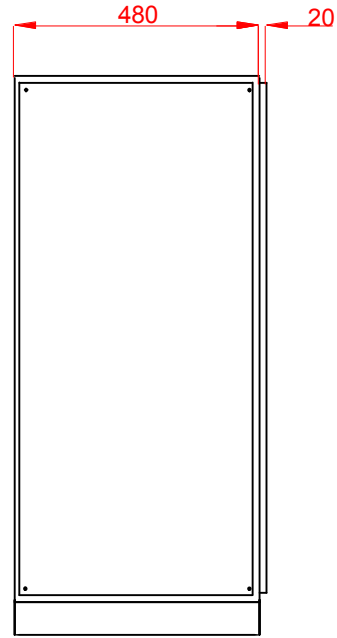


DRAWING

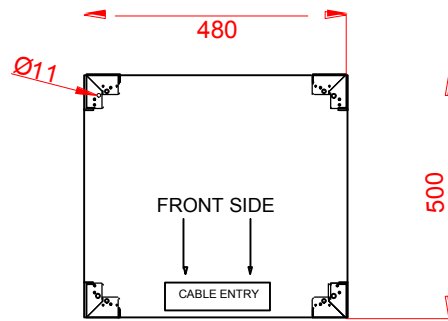
FRONT



LEFT

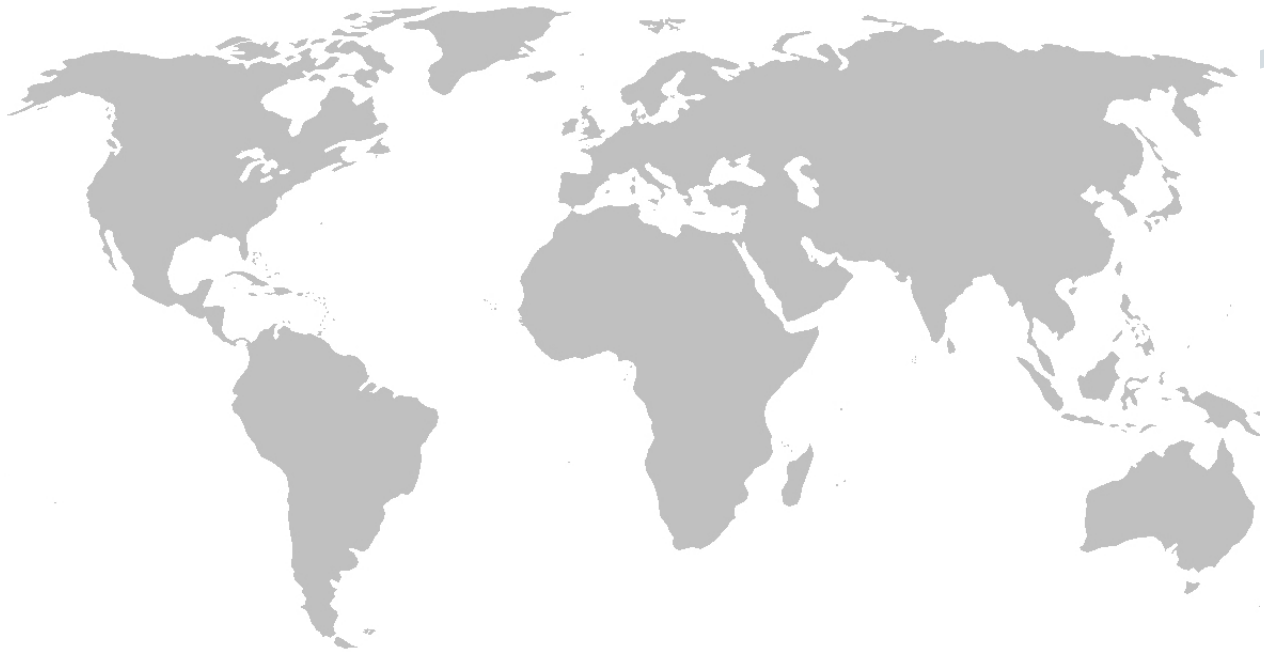
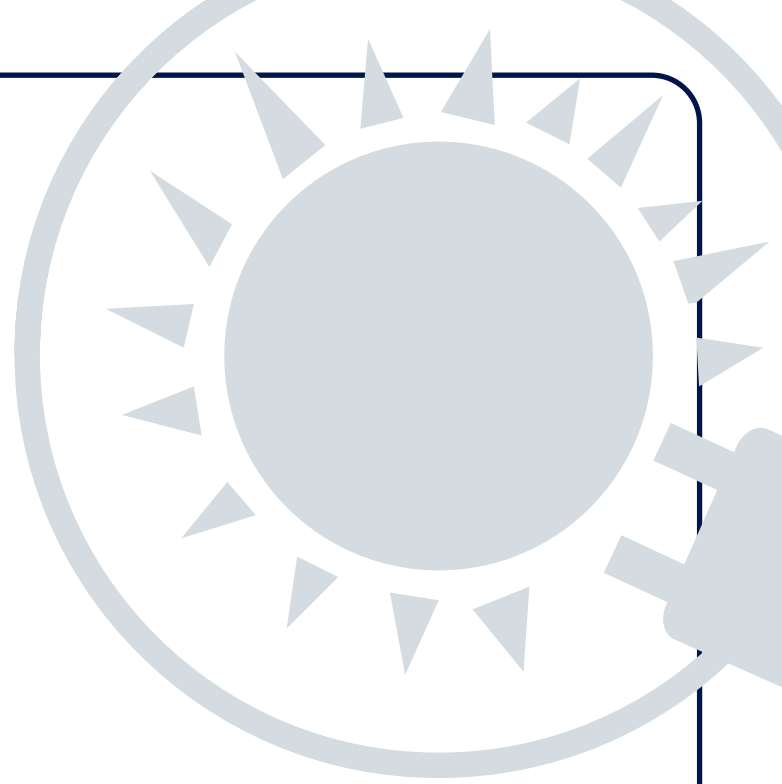


TOP



BOTTOM

"...power alliance..."



AETES
"...power alliance..."

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.