

Powering the future

AXTM250 Series Modular Inverter System



- » Versatile modular design
- » Parallel synchronized operation
- » Hot swappable modules
- » True sine wave output with THD < 3%
- » Galvanic isolation
- » Serial interface RS232 or RS485

AXTM250 is an extension of the ATM250 Series allowing a higher flexibility and increased power. Eight inverter modules mounted in two shelves deliver up to 16kVA to the load. The inverter modules are the same as those used in ATM250.

AXTM250 comes in two versions:

- AXTM250-A has a simple monitor module similar with the one used in the ATM250, but without the Automatic Transfer Switch (ATS).
- AXTM250-B has an external rack mount monitor fitted with an integrated Static Transfer Switch (STS) and a larger LCD display.

Technical Specifications

Electrical

- Nominal input voltage: 24Vdc, 48Vdc, 110Vdc, 220Vdc, 240Vdc
- Operating input voltage range: 20-30Vdc (24Vdc), 40-60Vdc (48Vdc), 93-143Vdc (110Vdc), 186-286Vdc (220Vdc), 198-302Vdc (240Vdc)
- Nominal output frequency: 50/60Hz \pm 0,1%
- Output power: 1kVA, 1.5kVA or 2kVA / inverter module, max. 4 modules/shelf*
- Power factor: > 0.8
- Efficiency: 87%
- Output nominal voltage: 110/115/120Vac, 220/230/240Vac
- Voltage regulation: \pm 2%
- Crest factor: 3:1
- Dynamic response time: < 20ms
- Isolation:
 - AC - DC: 2000Vrms
 - DC - Ground: 2000Vrms
 - AC - Ground: 2000Vrms
- THD: < 3% linear load, < 5% non linear load
- Overload: 150% - 1 min, 125% - 10 min
- MTBF: >100.000 hours

* The 24Vdc input inverter is available only in 1kVA version.

Automatic Transfer Switch

- AC voltage range: -25% to +20% Nominal Vin
- Frequency range: 45 to 65Hz
- Operating modes (selectable): online (load supplied by inverter) and offline (load supplied by AC mains)
- Transfer time (AXTM250-B): 4ms

User interface

- LCD display with 2 x 16 characters (AXTM250-A), 4 x 24 characters (AXTM250-B)
- Inverter module LED indicators: Fault, Load level
- Dry contacts AXTM-A: Overload, Line Fail, Low DC Voltage, Inverter Fault
- Dry contacts AXTM-B: Overload, Line Fail, Low DC Voltage, Inverter Fault, Load on bypass, Bypass Fault
- Serial port RS232 or RS485
- Internal speaker for audible alarms
- Optional Ethernet interface with web monitoring software

Environmental

- Operating temperature: -10 to +50°C, with linear power derating above 40°C
- Storage temperature: -40 to +85°C
- Humidity: 0 to 95% RH non-condensing
- Altitude: -500 to +2800m
- Cooling: Forced air
- Ingress protection rating: IP20

Physical dimensions

- Shelf 19" 3U / W443.5 x H133.5 x D498.9 mm, 7kg
- Inverter module: 4kg
- Monitor module AXTM250-A: 3kg
- Monitor module AXTM250-B: Subrack 19" 2U, 5kg

Protection

- Reversed polarity
- Over-temperature
- Overload
- Output shortcircuit
- DC (Battery) overvoltage
- DC (Battery) undervoltage
- Bypass overvoltage
- Bypass undervoltage

Agency Compliance

Safety

- EN 60950-1, CE Marked to LVD 2006/95/EC

Emissions

- EN55022
- EN61000-3-2
- EN61000-3-3
- EN55024

Immunity

- EN 61000