

Powtran PI500 inverters were used for the building automation

AC frequency inverters were widely used in our daily life, buildings around the world and the city infrastructure systems are installed with HVAC and water pressure equipment, the application of frequency inverter technology can improve air quality ,indoor comfort, energy saving, reduce maintenance costs and improve stability. The fluctuation of HVAC equipment is very large, motor frequency control is one of the most effective way for cost reduction.The motor speed is reduced by 20% on average, such as pump or fan, can save 40-50% energy.

The low maintenance cost of PI500 series frequency inverter can realize fast investment return on building automation and significantly save the total cost . The motor auto tuning, energy automatic optimization and other functions can ensure that the frequency inverter can perfect fit any motor and changing load.

The automation equipment in the building.

Heating equipment

- Boiler drum fan
- Main hot water pump
- Air conditioning unit
- Heat recovery system

Ventilation

- Air treatment equipment, roof air conditioning equipment, intake fan and exhaust fan
- Variable air volume / constant air volume ventilation system
- Smoke, fire and staircase ventilation systems
- ventilation system in parking
- kitchen ventilation system

Cooling

- Cooling water pump system
- Main pump / auxiliary pump

- Variable flow of main pump
- Air conditioning unit
- Heat recovery system
- Cooling tower fan, condensate pump
- Cooling unit compressor

Freshwater

- Pressurized pump
- Single pump or parallel pump

Powtran PI500 series inverter provides a perfect solution for a large heating project in the north China, a power control and energy saving fan transformation project for the building site. There are 45 units inverters used in the heating project, and 34 inverters are applied to the energy saving fan transformation project.



