

## E5-PA Series



### Product Profile

V&T E5-PA Special Inverter for Water Supply . For the characteristics of the water supply system, realizing the application requirements of multi-pump switching through single inverter, solving the impact of the start-up on the grid during the water supply process, and the sudden surge of the motor causes the system to surge, and it completely eliminates the water hammer phenomenon. The internal constant voltage control of the system is realized, which avoids the frequent operations, reduces the labor intensity of the personnel, saves manpower and can realize remote monitoring through a computer.

### System Feature

#### ■ Constant Pressure Water Supply

The 24-hour maintains a constant pressure, automatically starts the standby pump, starts the round-robin switch, and the water supply quality is good. It completely avoids the pipe network rupture and the faucet resonance phenomenon.

#### ■ Significant Power-saving

The system adjusts the pump speed according to the change of water consumption, so that the pump always works in the high efficiency zone. When the system has zero flow, the unit enters the dormant state and the pump stops. the work is performed after the flow increases, and the power saving is significant, and It can save electricity 20%-55% compared with the constant speed pump.

#### ■ Sleep Control

Prevent a pump from working for a long time and being damaged or rusting for a long time without working.

#### ■ Comprehensive Protection

It adopts variable frequency constant pressure water supply. Complete protection functions, reliable operation, protection functions such as undervoltage, overvoltage, overcurrent and overheating, and It realizes fault pump warning and isolation.

■ **Timing Control**

24 hours multi-stage pressure setting, clock memory can achieve automatic control of absolute time throughout the year

■ **Easy Operation**

Manual soft start, can be used for maintenance, debugging, sensor to detect water pressure, provide indication of overpressure and undervoltage.

■ **Multi-pump Cycle**

Automatic round-robin switching control from one to one and one to five.

■ **Timing Cycle**

Set time to reach automatic switching

■ **Convenient Installation**

The whole equipment only needs one control cabinet, the installation is very convenient, the space is small, and the startup is smooth.

■ **Smooth Startup**

The vector frequency conversion technology reduces the impact of the water pump, prevents the pressure of pipe network from rising or dropping when adding pumps or reducing pumps, and prolongs the service life of the motor and the water pump.

■ **Remote Control**

International standard protocols and interfaces make it easy to optimize the control of the water supply system and provide modern means of scheduling, management, monitoring and economic running.



## E5-PA Series Special Inverter for Water Supply

### Technical Indication

Parameter	Data
Startup Torque	0.50Hz 180%
Overload Capacity	160% rated load for 0.5 seconds continuous operation; 120% rated load for 1 minute continuous operation
Steady speed accuracy	±0.5%
Number of pumps added	1-5 pumps are optional

E5-P Series	Adaptable Expansion Card	Timing Control	Applicable Number of Pump	Applicable Type
E5-PA	No	No	1	0.75-400KW
E5-PA/DT01	DT01	No	1-3	0.75-400KW
E5-PA/DT02	DT02	No	1-5	5.5-400KW
E5-PA/DT03	DT03	Yes	1-5	5.5-400KW



### Applicable Range

It adopts variable frequency constant pressure water supply, which has the advantages of high efficiency, energy saving, stable pressure, reliable operation, simple operation, convenient installation, less space, low noise, no pollution, less investment and high efficiency.

### Wide Application:

- Various waterworks and modern agricultural irrigation
- Hot water supply for high-rise building and hot water heating system
- Automatic water supply control of city square music fountain, etc.
- Enterprise production, life water supply, constant pressure flow water supply

process, etc.

- Integrated market, office building, commercial building living water supply system
- life water for buildings, urban residential quarters, business units, and institutions
- Circulating pump and cooling water supply system for various types of central air conditioners
- Various types of constant pressure oil supply, constant pressure gas supply, constant pressure air supply and other constant pressure flow control system



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