



## **powtran PI7600 Frequency Inverter**

Power range : 0.75kw-7.5KW

Maximum frequency : 800.0Hz

Voltage level : 1-phase 220V

3-phase 220V

3-phase 380V/480V/690V

### **Description**

## Detail introduction:

PI7600 series inverter is new and developed by POWTRAN technology to the market demand. The new product adopt advanced space voltage vector SPWM control technique, high-performance power modules and DSP chip, built-in current control loop to achieve high-accuracy closed-loop control, high output voltage, frequency stability and accuracy requirements. The new production technology and complete testing equipments ensure the product more stable and reliable in applications.



The new PI7600 series inverter will provide you with more comprehensive motor control solutions.

## Performance Feature:

- New hardware and software design
- Excellent performance promoting
- Higher quality assurance

- Fashion appearance of industrialization
- Using DSP(Digital Signal Processor) as the core control unit, realize high-speed and high-performance control
- Integrating V/F control, V/F + PG control, and vector control + PG control function
- Three kinds of space voltage vector waveform way
- Dead time compensation function, realize high output torque in low frequency
- Automatic slip compensation
- 10 kinds of frequency setting mode, Analog terminals can receive the customized signal within 0 ~ 10V, 0 ~ 20mA
- Achieve up to 7 segments of speed and eight segments of acceleration control
- Six-way programmable output control terminals
- Built-in PID function which enable high-performance of closed-loop control
- Support 0 ~ 10V, 1 ~ 5V, 0 ~ 20mA, 4 ~ 20mA feedback signal
- PID adjust DC brake
- Speed tracking start and power recovery operation function
- Powerful communication capabilities support the standard RS485, Can Bus, and keyboard remote control function
- Humanized display menu, simultaneous display of three groups of state parameters
- Special inverter modules (IGBT) temperature monitoring function, cooling fan regulation controlled, timely reduce electrical noise and temperature rise
- Efficient fault checking and record function, convenient to remove the faults
- Parameter protect function
- Unique design, minimize the pollution of drives to power supply
- Stable, succinct, artistic

Installation Size:

| Model           | Power(KW) | current<br>(A) | Keyboard<br>Model | Net<br>weight<br>(kg) | Gross<br>Weight(kg) | Shape Size<br>L/W/H(mm) | Installation<br>Size<br>a/b/d(mm) | Chassis<br>models |
|-----------------|-----------|----------------|-------------------|-----------------------|---------------------|-------------------------|-----------------------------------|-------------------|
| PI7600<br>R75G3 | 0.75      | 2.5            | JP5E7800          | 2                     | 2.4                 | 170/125/162             | 160/112/Ø5                        | 4N2B              |
| PI7600<br>1R5G3 | 1.5       | 3.7            | JP5E7800          |                       |                     |                         |                                   |                   |
| PI7600<br>2R2G3 | 2.2       | 5              | JP5E7800          |                       |                     |                         |                                   |                   |
| PI7600 004G3    | 4         | 8.5            | JP5E7800          | 3                     | 3.5                 | 220/150/178             | 205/138/Ø5.5                      | 4N3B              |
| PI7600<br>5R5G3 | 5.5       | 13             | JP5E7800          |                       |                     |                         |                                   |                   |
| PI7600<br>7R5G3 | 7.5       | 16             | JP6E7800          | 6                     | 7                   | 300/218/212             | 288/203/Ø6.5                      | 4N4B              |
| PI7600 7R5F3    | 7.5       | 16             | JP6E7800          |                       |                     |                         |                                   |                   |
| PI7600 011F3    | 11        | 25             | JP6E7800          |                       |                     |                         |                                   |                   |