

# Programmable DC Power Supply

GPP-3610H/GPP-7250

## Quick Start Guide

GW INSTEK PART NO. 82PP-72500M01



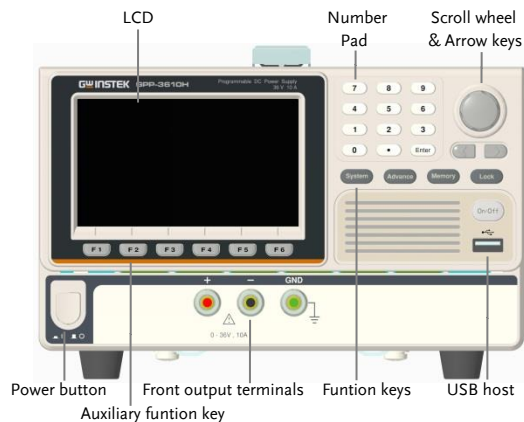
ISO-9001 CERTIFIED MANUFACTURER

**GW INSTEK**

## Introduction

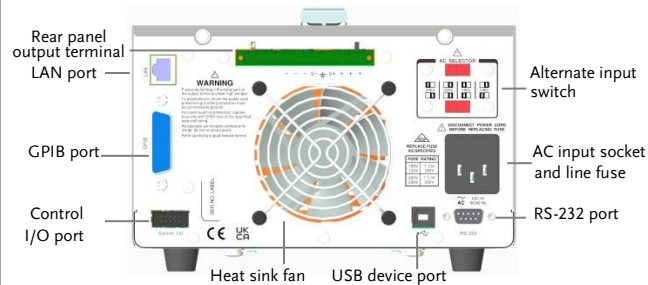
GPP-3610H/GPP-7250 programmable high-precision DC power supply with adjustable output voltage/current and multi-function.

## Front Panel



\*The panel above is the example of GPP-3610H.

## Rear Panel



## Function

For more information, refer to the User Manual within the enclosed CD.

### Display Modes

In order to offer diverse information display of each channel to meet requirements from different users, the GPP series provide several selections of different display modes.

### Source Function

The required output voltage or output current can be obtained through the Source function.

### Load Mode

It can be set as Load Mode to realize electronic load function.

### Sequence Function

Under Source mode of the GPP series, user can customize a certain V/I sequential waveform output. Under Load mode, it is programmable for dynamic load (below 1Hz).

### Delay Function

It is necessary to output a series of pulse in real applications. This function is available when voltage is constant. Output waveform can be edited per user's preference. The amplitude range of the output waveform is the output voltage range of power supply.

### Monitor/Recorder Function

GPP series can realize certain function including the Monitor function, which helps guarantee load status of client via halting operation based on certain preset conditions, and the Recorder function, which effectively records output status in real time.

### Front and Rear output Function

GPP can be operated through panel menu or remote command to output on front and back panels.

### Remote Control

To meet the various needs from customers, the GPP series provide the additional 4 types of remote control including USB, RS232, GPIB(Optional) and LAN(Optional).

## Specification

The specifications only apply when the unit has warmed up for at least 30 minutes, within +20°C - +30°C.

|               |                                     |                                                                                               |                                                                         |  |
|---------------|-------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|--|
| Source output | Rating                              | 0 - 36.000V, 0 - 10.0000A (GPP-3610H)<br>0 - 72.000V, 0 - 5.0000A (GPP-7250)                  |                                                                         |  |
| Voltage       | Line regulation                     | ≤ 0.01% + 3mV                                                                                 |                                                                         |  |
|               | Load regulation                     | ≤ 0.01% + 5mV                                                                                 |                                                                         |  |
|               | Ripple & noise                      | ≤1mVrms (5Hz-1MHz)                                                                            |                                                                         |  |
|               | Transient recovery time             | ≤100μs (50% load change, minimum load 0.5A)                                                   |                                                                         |  |
|               | Temperature coefficient             | ≤300ppm/°C                                                                                    |                                                                         |  |
| Current       | Line Regulation                     | ≤0.01% + 3mA                                                                                  |                                                                         |  |
|               | Load Regulation                     | ≤0.01% + 3mA                                                                                  |                                                                         |  |
|               | Ripple & noise                      | ≤2mArms                                                                                       |                                                                         |  |
| Resolution    | Voltage                             | programming 1mV, readback 0.1mV (GPP-3610H)<br>programming 2mV, readback 0.1mV (GPP-7250)     |                                                                         |  |
|               | Current                             | Programming 0.2mA, readback 0.2mA (GPP-3610H)<br>Programming 0.1mA, readback 0.1mA (GPP-7250) |                                                                         |  |
| Accuracy      | Setting/Readback                    | Voltage: ± (0.03% of reading + 10mV)<br>Current: ± (0.3% of reading + 10mA)                   |                                                                         |  |
| Load          | Display                             | Voltage                                                                                       | 1-36.50V (GPP-3610H)<br>1-72.50V (GPP-7250)                             |  |
|               |                                     | Current                                                                                       | 0-10.20A (GPP-3610H)<br>0-5.200A (GPP-7250)                             |  |
|               |                                     | Power                                                                                         | 0-100.00W                                                               |  |
|               |                                     | CV Mode                                                                                       | Setting Range 1.500V - 36.50V (GPP-3610H)<br>1.500V - 72.50V (GPP-7250) |  |
|               | Setting/Readback accuracy           | Setting/Readback accuracy                                                                     | ≤±(0.1% + 30mV)                                                         |  |
|               |                                     | Resolution                                                                                    | 10mV                                                                    |  |
|               |                                     | CC Mode                                                                                       | Setting Range 0 - 10.200A (GPP-3610H)<br>0 - 5.200A (GPP-7250)          |  |
|               | Setting/Readback accuracy           | Setting/Readback accuracy                                                                     | ≤ ±(0.3% +10mA)                                                         |  |
|               |                                     | Resolution                                                                                    | 1mA                                                                     |  |
|               |                                     | CR Mode                                                                                       | Setting Range 1Ω-1kΩ                                                    |  |
|               | Setting/Readback accuracy           | Setting/Readback accuracy                                                                     | ≤ ±(3%+1Ω) (voltage≥0.1V, and current≥0.1A)                             |  |
|               |                                     | Resolution                                                                                    | 1Ω                                                                      |  |
| OVP           | Power mode                          | OFF,ON(0.5V-38.0V) (GPP-3610H)<br>OFF,ON(0.5V-75.0V) (GPP-7250)                               |                                                                         |  |
|               |                                     | Load mode                                                                                     | OFF,ON(1.5V-38.0V) (GPP-3610H)<br>OFF,ON(1.5V-75.0V) (GPP-7250)         |  |
|               | Setting accuracy                    | Setting accuracy                                                                              | ±100mV                                                                  |  |
|               |                                     | Resolution                                                                                    | 100mV                                                                   |  |
| OCP           | Power/Load mode                     | OFF,ON(0.05A-10.50A) (GPP-3610H)<br>OFF,ON(0.05A-5.50A) (GPP-7250)                            |                                                                         |  |
|               |                                     | Setting accuracy                                                                              | ±20mA                                                                   |  |
|               | Resolution                          | 10mA                                                                                          |                                                                         |  |
| Power Input   | AC 100V/120V/220V/230V±10%, 50/60Hz |                                                                                               |                                                                         |  |
| Dimensions    | 213 (W) x 145 (H) x 362 (D) mm      |                                                                                               |                                                                         |  |