



## Programmable DC Electronic Load

### —600W-1200W Series



#### OVERVIEW

It uses 3.5-inch TFT true color LCD display with Chinese and English menu.

Offers 4 basic working modes (CC/CV/CR/CW) and 10 functional modes.

With comprehensive protection, over-heat protection, over-current protection, over-power protection, over-voltage protection, loop oscillation protection. HT8XXX series E-load supports RS232, LAN, USB and analog interfaces to meet your versatile solution and testing needs.

#### Test function

4 basic working modes CC/CV/CR/CW and 10 functional modes multiple extended function modes:

- DYNA dynamic test function
- OCP over current protection mode
- BATT battery mode
- EFFT load effect mode
- SWEEP dynamic frequency conversion scanning function
- TIMEING measurement function
- OVP over voltage protection mode
- AUTO mode
- LIST function

#### FEATURES

- 500kHz high speed voltage, current sampling rate
- High precision voltage and current measurement
- Fast loop response speed and current slew rate
- Programmable single step up to 10 $\mu$ S
- Equipped with remote four-wire compensation
- Unique real-time display of current ripple and voltage ripple
- Real-time display of load power and resistance

## 规格(SPECIFICATION)

| Model                       | HP8601             |       | HP8601B    |       | HP8122           |      | HP8122B          |       |
|-----------------------------|--------------------|-------|------------|-------|------------------|------|------------------|-------|
| Input voltage               | 15V                | 150V  | 50V        | 500V  | 15V              | 150V | 50V              | 500V  |
| Input current               | 12A                | 120A  | 6A         | 60A   | 24A              | 240A | 6A               | 60A   |
| Input power                 | 600W               |       |            |       | 1200W            |      |                  |       |
| Min.operation voltage       | 1.5V@120A          |       | 4V@60A     |       | 1.5V@240A        |      | 4V@60A           |       |
| Min.risetime@FScurrent      | 60us               |       | 60us       |       | 60us             |      | 60us             |       |
| CV mode                     |                    |       |            |       |                  |      |                  |       |
| Range                       | 15V                | 150V  | 50V        | 500V  | 15V              | 150V | 50V              | 500V  |
| Resolution                  | 0.2mV              | 2mV   | 0.7mV      | 7mV   | 0.2mV            | 2mV  | 0.7mV            | 7mV   |
| Accuracy                    | ±(0.05%+0.025%FS)  |       |            |       |                  |      |                  |       |
| CC mode                     |                    |       |            |       |                  |      |                  |       |
| Range                       | 12A                | 120A  | 6A         | 60A   | 24A              | 240A | 6A               | 60A   |
| Resolution                  | 0.1mA              | 1mA   | 0.09mA     | 0.9mA | 0.3mA            | 3mA  | 0.09mA           | 0.9mA |
| Accuracy                    | ±(0.05%+0.05%FS)   |       |            |       | ±(0.1%+0.1%FS)   |      | ±(0.05%+0.05%FS) |       |
| CR mode                     |                    |       |            |       |                  |      |                  |       |
| Range                       | 0.1Ω~7.5kΩ         |       | 0.1Ω~7.5kΩ |       | 0.1Ω~7.5kΩ       |      | 0.1Ω~7.5kΩ       |       |
| Resolution                  | 16Bits             |       |            |       |                  |      |                  |       |
| Accuracy                    | ±0.1%              |       |            |       |                  |      |                  |       |
| CW mode                     |                    |       |            |       |                  |      |                  |       |
| Range                       | 600W               |       |            |       | 1200W            |      |                  |       |
| Resolution                  | 16Bits             |       |            |       | 16Bits           |      |                  |       |
| Accuracy                    | ± (0.1%+0.1%FS)    |       |            |       |                  |      |                  |       |
| Dynamic mode                |                    |       |            |       |                  |      |                  |       |
| Ta& Tb                      | 10us~50s           |       |            |       |                  |      |                  |       |
| Min.resolution              | 10us               |       |            |       |                  |      |                  |       |
| Min. rise time              | 1.5A/us            |       | 0.5A/us    |       | 3.2A/us          |      | 0.8A/us          |       |
| Read-back voltage           |                    |       |            |       |                  |      |                  |       |
| Range                       | 15V                | 150V  | 50V        | 500V  | 15V              | 150V | 50V              | 500V  |
| Resolution                  | 0.1mV              | 1mV   | 0.3mV      | 3mV   | 0.1mV            | 1mV  | 0.3mV            | 3mV   |
| Accuracy                    | ±(0.025%+0.025%FS) |       |            |       |                  |      |                  |       |
| Read-back current           |                    |       |            |       |                  |      |                  |       |
| Range                       | 12A                | 120A  | 6A         | 60A   | 24A              | 240A | 6A               | 60A   |
| Resolution                  | 0.09mA             | 0.9mA | 0.02mA     | 0.2mA | 0.1mA            | 1mA  | 0.04mA           | 0.4mA |
| Accuracy                    | ±(0.05%+0.05%FS)   |       |            |       | ±(0.05%+0.05%FS) |      |                  |       |
| Read-back Ripple            |                    |       |            |       |                  |      |                  |       |
| Range(R/I)                  | 150V/120A          |       | 500V/60A   |       | 150V/240A        |      | 500V/60A         |       |
| bandwidth                   | 10Hz~250kHz        |       |            |       |                  |      |                  |       |
| Accuracy                    | ±0.1%              |       |            |       |                  |      |                  |       |
| Protection range            |                    |       |            |       |                  |      |                  |       |
| Over-power protection       | 630W               |       | 630W       |       | 1260W            |      | 1260W            |       |
| Over-current protection     | 126A               |       | 63A        |       | 252A             |      | 63A              |       |
| Over-voltage protection     | 158V               |       | 525V       |       | 158V             |      | 525V             |       |
| Over-temperature protection | ≈85°C              |       |            |       |                  |      |                  |       |
| Specification               |                    |       |            |       |                  |      |                  |       |
| Dimension (D*W*H)           | 483mm*428mm*89.5mm |       |            |       |                  |      |                  |       |
| Gross Weight                | 19.5Kg             |       |            |       |                  |      |                  |       |