## IT6800B series DC power supply

IT6860B power supply is a dual-range output power supply with high resolution of 1mV, 0.01mA, which can take place of two power supplies of previous type. You can adjust the voltage/current stepping by pressing the left and right keys to moving the cursor. It supports output timer function and programs by the front panel, which will bring great convenience. Its built-in RS232, USB and GPIB communication interfaces make the communication much faster.

## Feature

- VFD display
- Dual-range output
- Numerical keys operation
- Low ripple and low noise
- Intelligent fans cooling to save energy and reduce noise
- Built-in RS232/USB/GPIB communication interface
- Monitor by computer via software
- List function: voltage/current output by programming
- Knob adjust function
- Voltage/current stepping adjust by cursor
- SCPI communication protocol, compatible with IT6800 frame communication protocol
- Output timer function (range 0.1~9999.9S)

## Standard accessories

- Power cord
- Calibration report
- User's manual

## Specifications

| Parameter | | IT6861B | |
|---|---|---|---|
| **Output Ratings ( 0 ℃ - 40 ℃)** | Voltage | 0~20V | 0~8V |
| | Current | 5A | 9A |
| | Power | 100W | 72W |
| **Load Regulation ±( % of output+offset)** | Voltage | ≤0.01%+4mV | |
| | Current | ≤0.01%+2mA | |
| **Line Regulation ±(%ofoutput+offset)** | Voltage | ≤0.01%+4mV | |
| | Current | ≤0.01%+2mA | |
| **Setup Resolution** | Voltage | 1mV | |
| | Current | 0.1mA | |
| **Readback Resolution** | Voltage | 1mV | |
| | Current | 0.1mA | |
| **Setup Accuracy ±(%of output+offset)** | Voltage | ≤0.04%+8mV | |
| | Current | ≤0.1%+5mA | |
| **Readback Accuracy ±(%of output+offset)** | Voltage | ≤0.04%+8mV | |
| | Current | ≤0.1%+5mA | |
| **Ripple (20Hz~20MHz)** | DMV | ≤2mVp-p/0.5mVrms (20V/5A) ≤3mVp-p/1mVrms (8V/9A) | |
| | DMA | <9mArms | |
| | CMA | <1.5μArms | |
| **Up time** | 10%~90% | <90ms | |
| **Down time** | 90%~10% | <150ms | |
| **Dynamic recovery time** | Recovery 75mV | <50us | |
| **Dimension（mm）** | | 214.5W*88.2H*354.6D | |

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## Feature

- VFD display
- Dual-range output
- Numerical keys operation
- Low ripple and low noise
- Intelligent fans cooling to save energy and reduce noise
- Built-in RS232/USB/ GPIB communication interface
- Monitor by computer via software
- List function: voltage/current output by programming
- Knob adjust function
- Voltage/current stepping adjust by cursor
- SCPI communication protocol, compatible with IT6800 frame communication protocol
- Output timer function (range 0.1~9999.9S)

## Standard accessories

- Power cord
- Calibration report
- User's manual

## Specifications

| Parameter | | IT6862B | |
|---|---|---|---|
| **Output Ratings ( 0 ℃ - 40 ℃)** | Voltage | 0~32V | 0~12V |
| | Current | 3A | 6A |
| | Power | 96W | 72W |
| **Load Regulation ±( % of output+offset)** | Voltage | ≤0.01%+3mV | |
| | Current | ≤0.01%+2mA | |
| **Line Regulation ±(%ofoutput+offset)** | Voltage | ≤0.01%+3mV | |
| | Current | ≤0.01%+2mA | |
| **Setup Resolution** | Voltage | 1mV | |
| | Current | 0.1mA | |
| **Readback Resolution** | Voltage | 1mV | |
| | Current | 0.1mA | |
| **Setup Accuracy ±(%of output+offset)** | Voltage | ≤0.04%+8mV | |
| | Current | ≤0.1%+5mA | |
| **Readback Accuracy ±(%of output+offset)** | Voltage | ≤0.04%+8mV | |
| | Current | ≤0.1%+5mV | |
| **Ripple (20Hz~20MHz)** | DMV | ≤3mVp-p/0.5mVrms (32V/3A) ≤4mVp-p/1mVrms (12V/6A) | |
| | DMA | <7mArms | |
| | CMA | <1.5µArms | |
| **Up time** | 10%~90% | <90ms | |
| **Down time** | 90%~10% | <200ms | |
| **Dynamic recovery time** | Recovery 75mV | <50µs | |
| **Dimension（mm）** | | 214.5W*88.2H*354.6D | |

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## Feature

- VFD display
- Dual-range output
- Numerical keys operation
- Low ripple and low noise
- Intelligent fans cooling to save energy and reduce noise
- Built-in RS232/USB/GPIB communication interface
- Monitor by computer via software
- List function: voltage/current output by programming
- Knob adjust function
- Voltage/current stepping adjust by cursor
- SCPI communication protocol, compatible with IT6800 frame communication protocol
- Output timer function (range 0.1~9999.9S)

## Standard accessories

- Power cord
- Calibration report
- User's manual

## Specifications

| Parameter | | IT6863B | |
|---|---|---|---|
| **Output Ratings ( 0 ℃ - 40 ℃)** | Voltage | 0~72V | 0~32V |
| | Current | 1.5A | 3A |
| | Power | 108W | 96W |
| **Load Regulation ±( % of output+offset)** | Voltage | ≤0.01%+3mV | |
| | Current | ≤0.01%+2mA | |
| **Line Regulation ±(%ofoutput+offset)** | Voltage | ≤0.01%+3mV | |
| | Current | ≤0.01%+2mA | |
| **Setup Resolution** | Voltage | 1mV | |
| | Current | 0.1mA | |
| **Readback Resolution** | Voltage | 1mV | |
| | Current | 0.1mA | |
| **Setup Accuracy ±(%of output+offset)** | Voltage | ≤0.04%+8mV | |
| | Current | ≤0.1%+5mA | |
| **Readback Accuracy ±(%of output+offset)** | Voltage | ≤0.04%+8mV | |
| | Current | ≤0.1%+5mA | |
| **Ripple (20Hz~20MHz)** | DMV | ≤3mVp-p/1mVrms（72V/1.5A）≤3mVp-p/1mVrms (32V/3A) | |
| | DMA | <6mArms | |
| | CMA | <1.5μArms | |
| **Up time** | 10%~90% | <90ms | |
| **Down time** | 90%~10% | <250ms | |
| **Dynamic recovery time** | Recovery 75mV | <50us | |
| **Dimension（mm）** | | 214.5W*88.2H*354.6D | |

## IT6800B series DC power supply

IT6870B power supply is a dual-range output power supply with high resolution of 1mV, 0.01mA, which can take place of two power supplies of previous type. You can adjust the voltage/current stepping by pressing the left and right keys to moving the cursor. It supports output timer function and programs by the front panel, which will bring great convenience. Its built-in RS232, USB and GPIB communication interfaces make the communication much faster.

## Feature

- VFD display
- Dual-range output
- Numerical keys operation
- Low ripple and low noise
- Intelligent fans cooling to save energy and reduce noise
- Built-in RS232/USB/ GPIB communication interface
- Monitor by computer via software
- List function: voltage/current output by programming
- Knob adjust function
- Voltage/current stepping adjust by cursor
- SCPI communication protocol, compatible with IT6800 frame communication protocol
- Output timer function (range 0.1~9999.9S)

## Standard accessories

- Power cord
- Calibration report
- User's manual

## Specifications

| Parameter | | IT6872B | |
|---|---|---|---|
| **Output Ratings ( 0 ℃ - 40 ℃)** | Voltage | 0~35V | 0~15V |
| | Current | 4A | 7A |
| | Power | 140W | 105W |
| **Load Regulation ±( % of output+offset)** | Voltage | ≤0.01％+5mV | |
| | Current | ≤0.01％+3mA | |
| **Line Regulation ±(%ofoutput+offset)** | Voltage | ≤0.01％+5mV | |
| | Current | ≤0.01％+3mA | |
| **Setup Resolution** | Voltage | 1mV | |
| | Current | 0.1mA | |
| **Readback Resolution** | Voltage | 1mV | |
| | Current | 0.1mA | |
| **Setup Accuracy ±(%of output+offset)** | Voltage | ≤0.04％+8mV | |
| | Current | ≤0.1％+5mA | |
| **Readback Accuracy ±(%of output+offset)** | Voltage | ≤0.04％+8mV | |
| | Current | ≤0.1％+5mA | |
| **Ripple (20Hz~20MHz)** | DMV | ≤3mVp-p and 1mVrms | |
| | DMA | <6mArms | |
| | CMA | <1.5uArms | |
| **Dynamic recovery time** | Recovery 75mV | <50uS | |
| **Up time** | 10%~90% | <90mS | |
| **Down time** | 90%~10% | <350mS | |

## IT6800B series DC power supply

IT6870B power supply is a dual-range output power supply with high resolution of 1mV, 0.01mA, which can take place of two power supplies of previous type. You can adjust the voltage/current stepping by pressing the left and right keys to moving the cursor. It supports output timer function and programs by the front panel, which will bring great convenience. Its built-in RS232, USB and GPIB communication interfaces make the communication much faster.

## Feature

- VFD display
- Dual-range output
- Numerical keys operation
- Low ripple and low noise
- Intelligent fans cooling to save energy and reduce noise
- Built-in RS232/USB/GPIB communication interface
- Monitor by computer via software
- List function: voltage/current output by programming
- Knob adjust function
- Voltage/current stepping adjust by cursor
- SCPI communication protocol, compatible with IT6800 frame communication protocol
- Output timer function (range 0.1~9999.9S)

## Standard accessories

- Power cord
- Calibration report
- User's manual

## Specifications

| Parameter | | IT6873B | |
|---|---|---|---|
| **Output Ratings ( 0 ℃ - 40 ℃)** | Voltage | 0~75V | 0~32V |
| | Current | 2A | 4A |
| | Power | 150W | 128W |
| **Load Regulation ±( % of output+offset)** | Voltage | ≤0.01％+4mV | |
| | Current | ≤0.01％+2mA | |
| **Line Regulation ±(%ofoutput+offset)** | Voltage | ≤0.01％+4mV | |
| | Current | ≤0.01％+2mA | |
| **Setup Resolution** | Voltage | 1mV | |
| | Current | 0.1mA | |
| **Readback Resolution** | Voltage | 1mV | |
| | Current | 0.1mA | |
| **Setup Accuracy ±(%of output+offset)** | Voltage | ≤0.04％+8mV | |
| | Current | ≤0.1％+5mA | |
| **Readback Accuracy ±(%of output+offset)** | Voltage | ≤0.04％+8mV | |
| | Current | ≤0.1％+5mA | |
| **Ripple (20Hz~20MHz)** | DMV | ≤3mVp-p and 1mVrms | |
| | DMA | <6mArms | |
| | CMA | <1.5uArms | |
| **Dynamic recovery time** | Recovery 75mV | <50uS | |
| **Up time** | 10%~90% | <90mS | |
| **Down time** | 90%~10% | <450mS | |

## IT6800B series DC power supply

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## Feature

- VFD display
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- Built-in RS232/USB/GPIB communication interface
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- List function: voltage/current output by programming
- Knob adjust function
- Voltage/current stepping adjust by cursor
- SCPI communication protocol, compatible with IT6800 frame communication protocol
- Output timer function (range 0.1~9999.9S)

## Standard accessories

- Power cord
- Calibration report
- User's manual

## Specifications

| Parameter | | IT6874B | |
|---|---|---|---|
| **Output Ratings ( 0 ℃ - 40 ℃)** | Voltage | 0~150V | 0~60V |
| | Current | 1.2A | 2A |
| | Power | 180W | 120W |
| **Load Regulation ±( % of output+offset)** | Voltage | ≤0.01％+4mV | |
| | Current | ≤0.01％+2mA | |
| **Line Regulation ±(%ofoutput+offset)** | Voltage | ≤0.01％+4mV | |
| | Current | ≤0.01％+2mA | |
| **Setup Resolution** | Voltage | 1mV(<100V) 10mV(>100V) | |
| | Current | 0.1mA | |
| **Readback Resolution** | Voltage | 1mV(<100V) 10mV(>100V) | |
| | Current | 0.1mA | |
| **Setup Accuracy ±(%of output+offset)** | Voltage | ≤0.05％+20mV | |
| | Current | ≤0.1％+5mA | |
| **Readback Accuracy ±(%of output+offset)** | Voltage | ≤0.05％+20mV | |
| | Current | ≤0.1％+5mA | |
| **Ripple (20Hz~20MHz)** | DMV | ≤5mVp-p and 1mVrms | |
| | DMA | <5mArms | |
| | CMA | <1.5uArms | |
| **Dynamic recovery time** | Recovery 75mV | <100uS | |
| **Up time** | 10%~90% | <150mS | |
| **Down time** | 90%~10% | <2S | |