

# IT6800A Single Channel Programmable DC Power Supply



## Applications

Laboratory testing, production testing, maintenance testing

## Feature

- Support panel programming, numeric keypad operation
- High accuracy and resolution 1mV/0.1mA
- Outputs according to the programmed voltage and current values
- Adjust the voltage and current via knob
- Lower ripple and noise
- Remote sense
- Built-in RS232 / USB/ GPIB interface \*1
- Intelligent fan control, save energy and reduce noise

\*1Only IT6800B series is built-in GPIB

Model	Voltage	Current	Power	Interface
IT6831A	18V	10A	180W	USB/RS232
IT6832A	32V	6A	192W	USB/RS232
IT6832B	32V	6A	192W	USB/RS232/GPIB
IT6833A	72V	3A	216W	USB/RS232
IT6833B	72V	3A	216W	USB/RS232/GPIB
IT6835A	50V	4A	200W	USB/RS232
IT6835B	50V	4A	200W	USB/RS232/GPIB

\*IT6800A single channel series is standard model, IT6800B single channel series is optional if you need GPIB interface.

IT6800 single channel programmable DC power supply (180W-216W) with resolution 1mV/0.1mA, users can adjust the voltage/current stepping by pressing the left and right keys to moving the cursor and programs by the front panel. OVP/OTP protection. IT6800 supports timer function and their built-in RS232 and USB communication interfaces offer you a convenience testing experience.

## Support panel programming function (List)

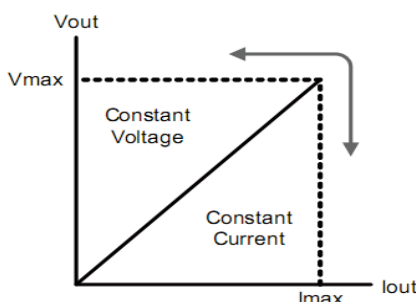
IT6800A/B Series single channel Programmable DC Power Supply generates a variety of output change sequences by sequentially operating each single step value and time. The parameters in the sequence include time units, single-step voltage, single-step current, single-step time, and the next step, looping steps, saving files, and so on. After the sequential operation is completed, when a trigger signal is received, the power is turned on until the sequence operation is completed or another trigger signal is received again.

## Input timer

IT6800A/B series supply Input timer function, users can start this function in the Menu and set the time, starting timer from the power output on, after arriving at the setting time, power will automatically turn off the output. Timing time setting range 0.1 ~ 9999.9S or 0.1 ~ 9999.9M

**CV/ CC automatic conversion function**

With this function, the power supply can be operated continuously from constant voltage mode to constant current mode switching as the load changes



**Remote sense function**

In order to avoid the Voltage drop caused by the length of the wire connecting the load, the remote test allows measurement directly on the terminal of the test object to improve the measurement accuracy. S +, S - is the remote measurement terminal, +, - is the output positive and negative terminals. When using the remote measurement function, it is necessary to disconnect the wires connected to the "+, -" terminals and lead S +, S - to the DUT.

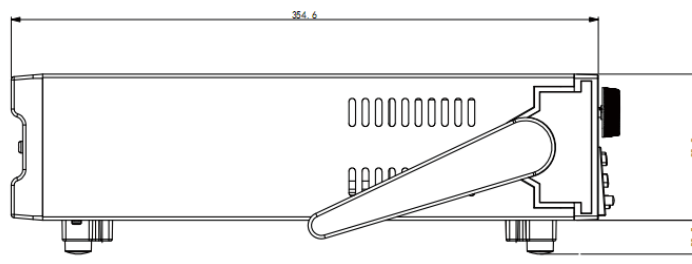
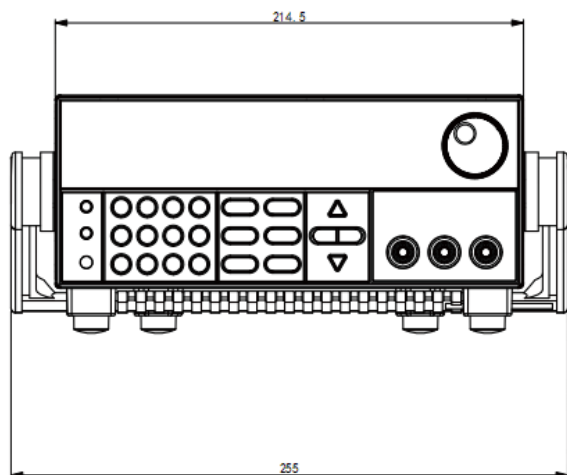
**IT6800A/B Specifications**

	IT6831A	IT6832A/B	IT6833A/B	IT6835A/B
Rated output (0°C-40 °C)	Voltage	0~18V	0~32V	0~72V
	Current	0~10A	0~6A	0~3A
	Power	180W	192W	216W
Load regulation ±(%of Output+Offset)	Voltage	≤0.01%+6mV	≤0.01%+5mV	≤0.01%+4mV
	Current	≤0.1%+5mA	≤0.01%+3mA	≤0.01%+2mA
Line regulation ±(%of Output+Offset)	Voltage	≤0.02%+6mV	≤0.01%+5mV	≤0.01%+4mV
	Current	≤0.1%+5mA	≤0.01%+3mA	≤0.01%+2mA
Programming resolution	Voltage	1mV	1mV	1mV
	Current	0.1mA(<10A)/1mA(≥10A)	0.1mA	0.1mA
Readback resolution	Voltage	1mV	1mV	1mV
	Current	0.1mA(<10A)/1mA(≥10A)	0.1mA	0.1mA
Programming accuracy (Within 12 months, 25°C±5°C)±(%of Output+Offset)	Voltage	≤0.04%+8mV	≤0.04%+8mV	≤0.04%+8mV
	Current	≤0.1%+12mA	≤0.1%+8mA	≤0.1%+5mA
Readback accuracy (Within 12 months, 25°C±5°C)±(%of Output+Offset)	Voltage	≤0.04%+8mV	≤0.04%+8mV	≤0.04%+8mV
	Current	≤0.1%+12mA	≤0.1%+8mA	≤0.1%+5mA
Ripple(20HZ-20M)	Voltage	≤4mVp-p and 1.5mVrms	≤4mVp-p and 1mVrms	≤4mVp-p and 1mVrms
	Current	<7mArms	<6mArms	<5mArms
Transient response time (recovered to 75mV)	≤100us(Typical value)			
Size ( mm)	214.5mmW*88.2mmH*354.6mmD			

\*IT6800A single channel series is standard model, IT6800B single channel series is optional if you need GPIB interface.

\* This information is subject to change without notice.

**IT6800A/B Dimension figure**



Unit: mm