



IT6830A&B Programmable DC Power Supply

IT6830A & B series are single output programmable DC power supplies. It's with high resolution 1mV/0.1mA, adjustable output time function, supporting panel list programming procedures, OVP/OTP protection functions, provides your test great convenience. With built-in USB and RS232 interfaces, they can be used both on benchtop and systematical. It offers multi-purpose solutions, based on your design and testing requirements.



IT6833A

Features

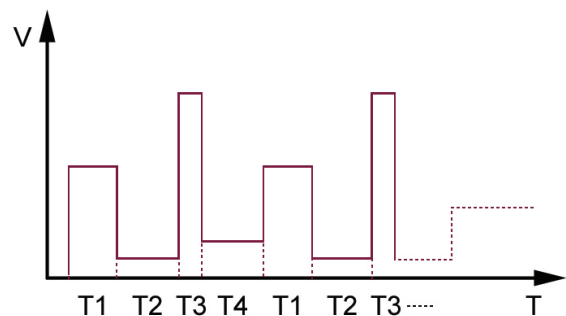
- VFD display
- Convenient data entry via knob or numerical key pad
- High accuracy and high resolution
- Low ripple and low noise
- Intelligent fan control, energy conservation, noise reduction
- Built-in RS232/USB communication interface
- Output programmed voltage and current
- Remote sense

Model	Voltage	Current	Power
IT6831 A & B	18 V	10 A	180 W
IT6832 A & B	32 V	6 A	192 W
IT6833 A & B	72 V	3 A	216 W

* What differentiates IT6830A and IT6830B is GPIB communication interface only, A series is without GPIB interface.

List Mode

IT6830A generates a complex current sequence by editing value and time of each step. A list file includes following parameters: the unit of time, voltage, current, time width of single step, whether to end, cycling steps, whether to save the list. After programming the list, the power supply starts to run the list file once receiving a trigger signal, continue to run until end of the operation or receiving another trigger.



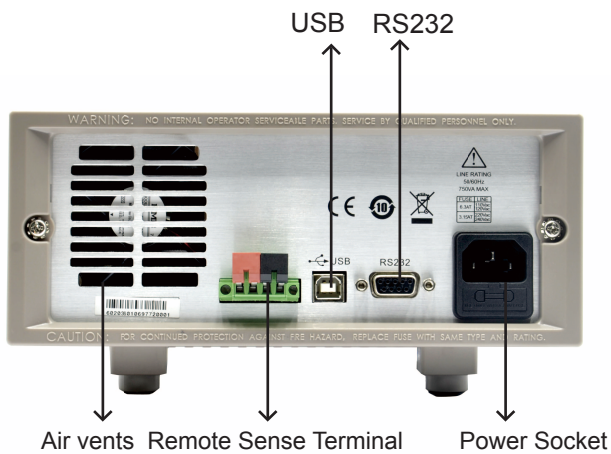
Remote Sense

Remote sense can be used to compensate for voltage (up to 1 V) due to resistance from test leads connected to your device under test (DUT), thus providing more accurate output voltage. The power supply is initially setup to local sense mode by default. Refer to the following sections for details of local and remote sense set up.

Specification

		IT6831A	IT6832A	IT6833A
Output Rating	Voltage	0-18 V	0-32 V	0-72 V
Output Power	Current	0-10 A	0-6 A	0-3 A
	Power	180 W	192 W	216 W
Load Regulation	Voltage	≤ 0.01 % + 6 mV	≤ 0.01 + 5 mV	≤ 0.01 +4 mV
	Current	≤ 0.1 % + 5 mA	≤ 0.01 + 3 mA	≤ 0.01 +2 mA
Line Regulation	Voltage	≤ 0.02 % + 6 mV	≤ 0.01 + 5 mV	≤ 0.01%+4 mV
	Current	≤ 0.1 % + 5 mA	≤ 0.01 + 3 mA	≤ 0.01 %+2 mA
Setup Resolution	Voltage	1 mV	1 mV	1 mV
	Current	0.1 mA (< 10 A) / 1 mA (≥ 10 A)	0.1 mA	0.1 mA
Read Back Resolution	Voltage	1 mV	1 mV	1 mV
	Current	0.1 mA (< 10 A) / 1 mA (≥ 10 A)	0.1 mA	0.1 mA
Setup Accuracy	Voltage	≤ 0.04 % + 8 mV	≤ 0.04 % + 8 mV	≤ 0.04 %+8 mV
	Current	≤ 0.1 % + 12 mA	≤ 0.1 % + 8 mA	≤ 0.1 %+5 mA
Read back Accuracy	Voltage	≤ 0.04 % + 8 mV	≤ 0.04 % + 8 mV	≤ 0.04 %+8 mV
	Current	≤ 0.1 % +12 mA	≤ 0.1 % + 8 mA	≤ 0.1 %+5 mA
Ripple (20Hz -20MHz)	Voltage	≅ 4 mVp-p and 1.5 mVrms	≅ 4 mVp-p and 1 mVrms	≤ 4 mVp-p and 1 mVrms
	Current	≤ 7 mArms	< 6 mArms	< 5 m Arms
Dynamic recovery time	Recovery 75mv	≤ 100 us	100 us	200 us
Dimension	W*H*D	214.5 mmW*88.2 mmH*354.6 mmD	214.5 mmW*88.2 mmH*354.6 mmD	214.5 mmW*88.2 mmH*354.6 mmD

IT6830A Rear Panel Instruction



Standard Accessories

Power Cord

Test Report

User Manual

Optional Accessories

IT-E151 19" Rock Mount Kit