



IT6830A Programmable DC power supply

IT6830A series power supplies are single output programmable DC power supplies. Their 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 the table and systematic, that offer multi-purpose solutions, based on your design and testing requirements.



IT6833A Programmable DC power supply

Power Supply

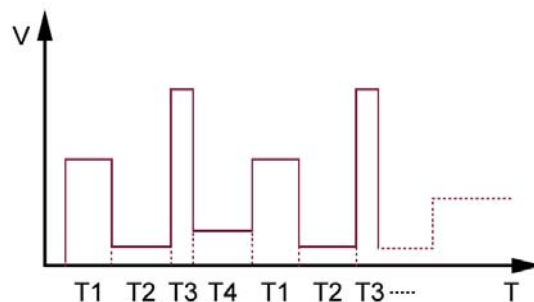
■ Feature

- Bright 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 voltage and current values accordance with procedure
- Remote sensing

Model	Voltage	Current	Power
IT6831A	18V	10V	180W
IT6832A	32V	6A	192W
IT6833A	72V	3A	216W

List mode

IT6830A generate 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 DC starts to run the list file once receiving a trigger signal, continue to run until the end of the operation or receiving another trigger.



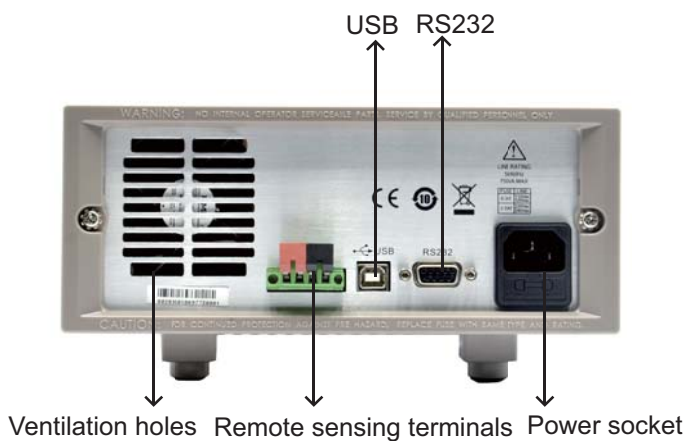
Remote Sense

Remote sense can be used to compensate for voltage drops (up to 1V) due to resistance from test leads connected to your device under test (DUT), thus providing more accurate output voltage. The power supply is initially set up 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	0-18V	0-32V	0-72V
Output Power	Current	0-10A	0-6A	0-3A
	Power	180W	192W	216W
Load Regulation	Voltage	≤0.01%+6mV	≤0.01 +5mV	≤0.01 +4mV
	Current	≤0.1%+5mA	≤0.01 +3mA	≤ 0.01 +2mA
Line Regulation	Voltage	≤0.02%+6mV	≤0.01 +5mV	≤0.01%+4mV
	Current	≤0.1%+5mA	≤0.01 +3mA	≤0.01%+2mA
Setup Resolution	Voltage	1mV	1mV	1mV
	Current	0.1mA(<10A)/1mA(≥10A)	0.1mA	0.1mA
Read Back Resolution	Voltage	1mV	1mV	1mV
	Current	0.1mA(<10A)/1mA(≥10A)	0.1mA	0.1mA
Setup Accuracy	Voltage	≤0.04%+8mV	≤0.04%+8mV	≤0.04%+8mV
	Current	≤0.1%+12mA	≤0.1%+8mA	≤0.1%+5mA
Read back Accuracy	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	≅7mA _{rms}	<6mA _{rms}	<5mA _{rms}
Dynamic recovery time	Recovery 75mv	≤100us	100us	200us
Dimension	W*H*D	214.5mmW*88.2mmH*354.6mmD	214.5mmW*88.2mmH*354.6mmD	214.5mm×88.2mm×354.6mm

IT6830A Rear panel instruction



Standard accessories

Power cord

Test report

User's manual

Optional accessories

IT-E151 mounting kit