



IT6300 High Performance Triple Channels DC Power Supply



Applications

School/educational laboratories, production lines test, maintenance testing

Feature

- Triple adjustable voltage output, isolated 3 channels
- Serial/ Parallel/ Track mode *1
- Display voltage and current measurements continuously from all three outputs
- Small size of 2U half-rack
- VFD display
- Panel function keys with backlight display
- Adjust the digital step value via cursor
- Output switch control
- High accuracy, high resolution and high stability
- Remote measurement function, compensation online voltage drop *2
- Comprehensive protection functions
- Intelligent fan control to reduce noise
- Multi interfaces for choosing, such as USB/RS232/LAN *3

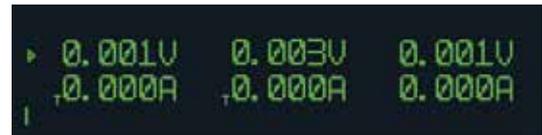
*1: Table 1 for details *2: IT6300A/B/C

*3: For any GPIB interface option request, check with ITECH for availability.

IT6300 series is high-performance programmable triple channels DC power supply, each output voltage and current can be set from 0 to maximum rated output. This series supports series connection, parallel connection and track mode, which offer multi-purpose solutions for customers test. IT6300 series is with high resolution 1mV / 1mA and remote sense function, which make the test more accurate. With built-in standard USB / RS232 / LAN communication interface, IT6300 series greatly enhance the communication speed, and customers also can adjust the digital step value by using the cursor to facilitate the operation.

Track mode (Synchronous output)

CH1 and CH2, CH2 and CH3, or all three channels to be set as track mode, if any one channel parameter changed, the corresponding parameters of the other channels will also change in direct proportion. For example, set up voltage and current of CH1 and CH2 to be CH1: 4V, 1A; CH2:8V, 2A. Set CH1 and CH2 in track mode, in output off and Meter state, VFD is shown below:

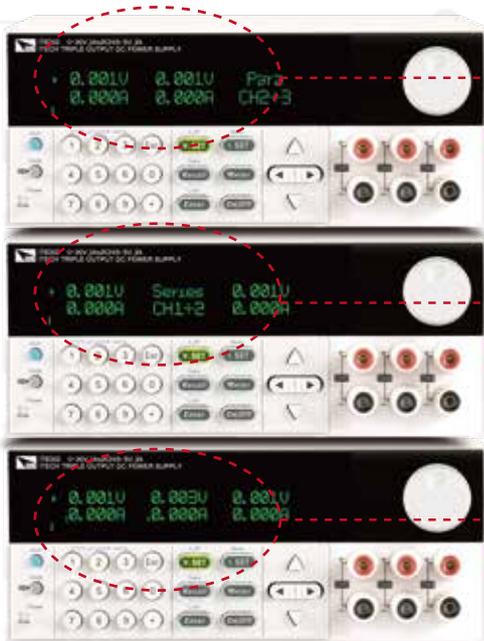


* In the setting state, if the voltage of CH1 is set to 2V, the voltage of CH2 will be automatic synchronization to 4V (proportional)

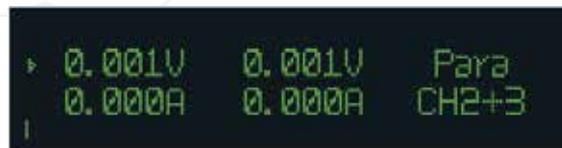
	Specification	Interface	Protection	Channel Setting
IT6322	30V/3A/90W*2CH 5V/3A/15W*1CH	Optional USB/GPIB/RS232	Limited voltage, limited current and OTP	Support serial or parallel connection
IT6322A	30V/3A/90W*2CH 5V/3A/15W*1CH	USB/RS232	OVP, OTP	Support serial, parallel or synchronization
IT6322B	30V/3A/90W*2CH 5V/3A/15W*1CH	USB/GPIB/RS232	OVP, OTP	Support serial, parallel or synchronization
IT6322C	30V/3A/90W*2CH 5V/3A/15W*1CH	USB/LAN	OVP, OTP	Support serial, parallel or synchronization
IT6332A	30V/6A/180W*2CH 5V/3A/15W*1CH	USB/RS232	OVP, OTP	Support serial, parallel or synchronization
IT6332B	30V/6A/180W*2CH 5V/3A/15W*1CH	USB/GPIB/RS232	OVP, OTP	Support serial, parallel or synchronization
IT6332C	30V/6A/180W*2CH 5V/3A/15W*1CH	USB/LAN	OVP, OTP	Support serial, parallel or synchronization
IT6333A	60V/3A/180W*2CH 5V/3A/15W*1CH	USB/RS232	OVP, OTP	Support serial, parallel or synchronization
IT6333B	60V/3A/180W*2CH 5V/3A/15W*1CH	USB/GPIB/RS232	OVP, OTP	Support serial, parallel or synchronization
IT6333C	60V/3A/180W*2CH 5V/3A/15W*1CH	USB/LAN	OVP, OTP	Support serial, parallel or synchronization

*This information is subject to change without notice

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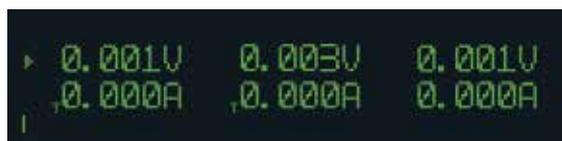
Parallel operation



Serial operation



track mode



Power Supply

IT6300 Specifications

	IT6322			IT6302			IT6322A / B / C			IT6332A / B / C			IT6333A / B / C			
	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	
Rated output*1	Voltage	0~30V	0~30V	0~5V	0~30V	0~30V	0~5V	0~30V	0~30V	0~5V	0~30V	0~30V	0~5V	0~60V	0~60V	0~5V
	Current	0~3A	0~3A	0~3A	0~3A	0~3A	0~3A	0~3A	0~3A	0~3A	0~6A	0~6A	0~3A	0~3A	0~3A	0~3A
	Power	90W	90W	15W	90W	90W	15W	90W	90W	15W	180W	180W	15W	180W	180W	15W
Load regulation*2	Voltage	≤0.01%+3mV			≤0.01%+4mV			≤0.01%+3mV			≤0.01%+3mV			≤0.01%+3mV		
	Current	≤0.01%+3mA			≤0.2%+3mA			≤0.1%+3mA			≤0.01%+3mA			≤0.01%+3mA		
Power regulation*2	Voltage	≤0.01%+3mV			≤0.01%+4mV			≤0.01%+3mV			≤0.01%+3mV			≤0.01%+3mV		
	Current	≤0.01%+3mA			≤0.2%+3mA			≤0.1%+3mA			≤0.01%+3mA			≤0.01%+3mA		
Setting resolution	Voltage	1mV			10mV			1mV			1mV			1mV		
	Current	1mA			1mA			1mA			1mA			1mA		
Readback resolution	Voltage	1mV			10mV			1mV			1mV			1mV		
	Current	1mA			1mA			1mA			1mA			1mA		
Setpoint accuracy*3	Voltage	±0.03%+10mV			≤0.06%+20mV			≤0.03%+10mV			≤0.03%+10mV			≤0.03%+10mV		
	Current	±0.1%+5mA			≤0.2%+10mA			≤0.1%+5mA			≤0.1%+8mA		≤0.1%+5mA	≤0.1%+5mA		
Readback value accuracy*3	Voltage	±0.03%+10mV			≤0.06%+20mV			≤0.03%+10mV			≤0.03%+10mV			≤0.03%+10mV		
	Current	±0.1%+5mA			≤0.2%+10mA			≤0.1%+5mA			≤0.1%+8mA		≤0.1%+5mA	≤0.1%+5mA		
Ripple and noise	Voltage	≤1mVrms/3mVp-p			≤5mVp-p/1mVrms			≤1mVrms/3mVp-p			≤1mVrms/4mVp-p		≤1mVrms/3mVp-p	≤1mVrms/4mVp-p		≤1mVrms/3mVp-p
	Current	≤3mA _{rms}			≤6mA _{rms}			≤3mA _{rms}			≤5mA _{rms}		≤4mA _{rms}	≤4mA _{rms}		
Serial operation	Serial error	≤0.05%+10mA			≤0.2%+15mA											
Parallel operation	Voltage	≤0.02%+5mV			≤0.2%+30mV			≤0.02%+5mV			≤0.02%+5mV			≤0.02%+10mV		
Setpoint accuracy	Current	≤0.1%+20mA			≤0.2%+25mA			≤0.1%+20mA			≤0.1%+30mA			≤0.1%+30mA		
Size		214.5mm*88.2mm*354.6mm			214.5mm*88.2mm*354.6mm			214.5mm*88.2mm*354.6mm			214.5mm*88.2mm*453.1mm			214.5mm*88.2mm*453.1mm		
weight		7.7Kg			7.1Kg			7.7Kg			15Kg			15Kg		

*1: (0°C - 40°C)

*2: (% of output+offset)

*3: (12-month validity) (25°C ± 5°C) (% of output+offset)

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